[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] $3\cdot 4$ [illegible] 3 [illegible] 4'*s* [illegible] 4 [illegible] 3'*s* [illegible]

$$3\cdot 4 = 4+4+4 = 12 \qquad \textbf{\textit{or}} \qquad 3\cdot 4 = 3+3+3+3 = 12$$

[illegible] 3^4 [illegible] 4 [illegible] 3'*s* [illegible]

$$3^4 = 3\cdot 3\cdot 3\cdot 3 = 81$$

[illegible] 3^4 [illegible] 3 [illegible] 3 [illegible] 3 [illegible] 4 [illegible]

[illegible]

[illegible]

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

[illegible]

[illegible]

[illegible] $-3-7+2$ [illegible] $-3-(7+2)$ [illegible] $36 \div 2 \cdot 3$

[illegible]

[illegible] $-6-3\cdot 2^3+(-4)^2$ [illegible] $(-6-3)\cdot 2^3+(-4)^2$

[illegible]

$$-6-3\cdot 2^3+(-4)^2=-$$

[illegible] $-9(2-5)-7$

[illegible] $-9\cdot 2-(5-7)$

[illegible] $30\div 2\cdot 5$

[illegible] $30\div (2\cdot 5)$

[illegible] $(30\div 2)\cdot 5$

[illegible] $6-8\div 2$

[illegible] $(6-8)\div 2$

[illegible] $6-(8\div 2)$

[illegible] $48\div 8\div 2$

[illegible] $48\div (8\div 2)$

[illegible] $(48\div 8)\div 2$

[illegible] $3\cdot 5-3\cdot 7$

[illegible] $3(5-7)$

[illegible] $3\cdot (5-3)\cdot 7$

[illegible]

[illegible] 3^4

[illegible] 5^3

[illegible] 2^5

[illegible] 7^2

[illegible] $(-4)^2$

[illegible] -4^2

[illegible] $(-$

[illegible] 12 [illegible] 18 [illegible] $1, 2, 3$ [illegible] 6 [illegible] 12 [illegible] 18 [illegible] 6 [illegible] $6 = \boldsymbol{GCF}(12, 18)$ [illegible] 36 [illegible] 12 [illegible]

2^2 2 20 27 3^3 3 20 27 5 5 20 27

$$\boldsymbol{LCM}(20, 27) = 2$$

[illegible] x^7 [illegible] x [illegible] $x^7y^8z^5$ [illegible] $x^4y^{12}w$ [illegible] y^{12} [illegible] y [illegible] $x^7y^8z^5$ [illegible] $x^4y^{12}w$ [illegible] z^5 [illegible] z [illegible] $x^7y^8z^5$ [illegible] $x^4y^{12}w$ [illegible] w [illegible] w [illegible] $x^7y^8z^5$ [illegible] $x^4y^{12}w$ [illegible]

$$LCM(x^7y^8z^5,\, x^4y^{12}w) = x^7y^{12}z^5w$$

[illegible]

$\boldsymbol{GCF}(18\boldsymbol{x}^4\boldsymbol{y}$

[illegible] $3^2\cdot 5\cdot 7,\quad 3\cdot 7^2\cdot 13$ [illegible] $5^2\cdot 11,\quad 5\cdot 7\cdot 11^2$

[illegible] $2^4\cdot 5^2\cdot 17,\quad 2^2\cdot 5^3$ [illegible] $2^4\cdot 3^2,\quad 5^2\cdot 13$

[illegible]

[illegible] $\boldsymbol{a}^2\boldsymbol{b}^3,\quad \boldsymbol{ab}^7$ [illegible] $\boldsymbol{x}^3\boldsymbol{y}^2\boldsymbol{z}^5,\quad \boldsymbol{x}^5\boldsymbol{y}^9\boldsymbol{z}^2$

[illegible] $\boldsymbol{a}^7\boldsymbol{bc}^3,\quad \boldsymbol{a}^2\boldsymbol{b}^5$ [illegible] $\boldsymbol{x}^3\boldsymbol{y}^5\boldsymbol{w},\quad \boldsymbol{xz}^4\boldsymbol{w}^8$

[illegible] $6\boldsymbol{x}^3,\quad 15\boldsymbol{x}^7$ [illegible] $12\boldsymbol{xy},\quad 9\boldsymbol{x}^3$

[illegible] $8\boldsymbol{a}^2\boldsymbol{b}^7,\quad 15\boldsymbol{a}^4\boldsymbol{b}^2$ [illegible] $24\boldsymbol{y}^{13},\quad 60\boldsymbol{y}^{10}$

[illegible] $51\boldsymbol{x}^2\boldsymbol{w},\quad 27\boldsymbol{w}^5$ [illegible] $9\boldsymbol{x}^3,\quad 8\boldsymbol{y}^3$

[illegible] $16\boldsymbol{ab}^2,\quad 52\boldsymbol{a}^2\boldsymbol{b}^5$ [illegible] $48\boldsymbol{x}^7\boldsymbol{y}^3,\quad 28\boldsymbol{y}^7\boldsymbol{zw}$

[illegible]

[illegible] $8\boldsymbol{xy}^2,\quad 20\boldsymbol{x}^3\boldsymbol{yw},\quad 12\boldsymbol{x}^4\boldsymbol{y}^3\boldsymbol{w}^5$ [illegible] $21\boldsymbol{a}^3\boldsymbol{b}^9,\quad 9\boldsymbol{a}^7\boldsymbol{b}^5,\quad 15\boldsymbol{a}^5\boldsymbol{b}^{12}$

[illegible] $18\boldsymbol{b}^4\boldsymbol{c}^3,\quad 24\boldsymbol{c}^6\boldsymbol{d}^2,\quad 42\boldsymbol{bc}^2\boldsymbol{d}^7$ [illegible] $8\boldsymbol{x}^5,\quad 9\boldsymbol{x}^{12},\quad 6\boldsymbol{x}^7$

$\frac{5}{12}+\frac{1}{4}$ $\frac{2}{3}-\frac{4}{5}$ $\frac{7}{12}+\frac{3}{16}$ $\frac{1}{2\cdot 3^3}+\frac{7}{2^2\cdot 3^2\cdot 5}$

12 12 4 $\frac{5}{12}$ $\frac{1}{4}$

12

$$
\begin{aligned}
\frac{5}{12}+\frac{1}{4} &= \frac{5}{12}+\frac{1\cdot 3}{4\cdot 3} \\
&= \frac{5}{12}+\frac{3}{12} \\
&= \frac{8}{12} \\
&= \frac{2}{3}
\end{aligned}
$$

12

[illegible] $12 = 2^2 \cdot 3$ [illegible] $16 = 2^4$ [illegible] $48 = 2^4 \cdot 3$ [illegible] 48 [illegible] 12 [illegible] 16 [illegible] $48 = 12 \cdot 4$ [illegible] $48 = 16 \cdot 3$ [illegible] $\frac{7}{12}$ [illegible] $\frac{3}{16}$ [illegible] 48 [illegible]

$$\frac{7}{12}+\frac{3}{16}=\frac{7\cdot 4}{12\cdot 4}+\frac{3\cdot 3}{16\cdot 3}$$

[illegible] 48

$$=\frac{28}{48}+\frac{9}{48}$$

[illegible]

$$=\frac{37}{48}$$

[illegible]

[illegible] $2\cdot 3^3$ [illegible] $2^2\cdot 3^2\cdot 5$ [illegible] 2^2

37

$\left(-\frac{1}{3}\right)^2+4=\frac{1}{9}+4$ [illegible] $-\frac{1}{3}$

$=\frac{1}{9}+\frac{36}{9}$ [illegible] $4=\frac{36}{9}$

$=\frac{37}{9}$ [illegible]

[illegible] $\frac{3}{x^2}-\frac{2}{y}$ [illegible] $x=-2$ [illegible] $y=-5$ [illegible]

[illegible] $x=-2$ [illegible] $y=-5$ [illegible]

$\frac{3}{x^2}-\frac{2}{y}=\frac{3}{(-2)^2}-\frac{2}{(-5)}$ [illegible] $x=-2$ [illegible] $y=-5$

$=\frac{3}{4}+\frac{2}{5}$ [illegible] **r g** [illegible] **q** [illegible]

[illegible] $\frac{6xy}{21x^3}$ [illegible] $\frac{24x^2y^5}{16x^3y^8z^3}$

[illegible]

[illegible] $7\frac{3}{4}$ [illegible] $2\frac{4}{7}$

[illegible] $5\frac{2}{3}$ [illegible] $6\frac{7}{8}$

[illegible] $\frac{a}{2}+\frac{b}{5}$ [illegible] [illegible] $\frac{a}{18}-\frac{b}{15}$ [illegible]

[illegible] $\frac{x}{7}-\frac{y}{5}$ [illegible] [illegible] $\frac{x}{12}+\frac{y}{8}$ [illegible]

[illegible]

[illegible] $\frac{2}{5}+\frac{5}{6}$ [illegible] [illegible] $\frac{2}{5}\cdot\frac{5}{6}$ [illegible]

[illegible] $\frac{7}{8}-\frac{1}{6}$ [illegible] [illegible] $\frac{7}{8}\div\frac{1}{6}$ [illegible]

[illegible] $3\frac{3}{5}+1\frac{2}{5}$ [illegible] [illegible] $4\frac{2}{3}-3\frac{3}{4}$ [illegible]

[illegible] $3-\frac{2}{5}$ [illegible] [illegible] $\frac{3}{4}\div\frac{9}{8}$ [illegible]

[illegible] $\frac{3}{4}\cdot\frac{8}{15}$ [illegible] [illegible] $\frac{2}{3}\div 7$

[illegible] $\left(= \frac{3}{4} \right.$

[illegible] 0.00154 [illegible] 0.005 [illegible] 97.3

[illegible] x [illegible] 17 [illegible] x [illegible] 93 [illegible] x [illegible] x

[illegible]

[illegible] $\frac{23}{36}, \frac{15}{24}$ [illegible] $-\frac{17}{12}, -1\frac{3}{8}$

[illegible] $36 = 2^2 \cdot 3^2$ [illegible] $24 = 2^3 \cdot 3$ [illegible] $2^3 \cdot 3^2 = 72$ [illegible] 72 [illegible]

$$\frac{23}{36} = \frac{23\cdot 2}{36\cdot 2} = \frac{46}{72} \quad \textbf{\textit{and}} \quad \frac{15}{24} = \frac{15\cdot 3}{24\cdot 3} = \frac{45}{72}$$

[illegible] $\frac{23}{36} > \frac{15}{24}$ [illegible]

[illegible] $-1\frac{3}{8}$ [illegible] $-\frac{11}{8}$ [illegible] $-\frac{17}{12}$ [illegible] $-\frac{11}{8}$ [illegible] 24 [illegible] 24 [illegible]

$$-\frac{17}{12} = -\frac{17\cdot 2}{12\cdot 2} = -\frac{34}{24} \quad \textbf{\textit{and}} \quad -\frac{11}{8} = -\frac{11\cdot 3}{8\cdot 3} = -\frac{33}{24}$$

[illegible] $-\frac{17}{12} < -\frac{11}{8}$ [illegible] $-\frac{34}{24}$ [illegible] $-\frac{33}{24}$ [illegible]

[illegible]

[illegible] 39.42178 [illegible] 39.4231 [illegible] -0.87263 [illegible] -0.872904 [illegible] $\frac{5}{12}$ [illegible] 0.416

[illegible]

39.42178

39.4231

[illegible] 1 [illegible] m [illegible] [[illegible] m [illegible] j [illegible] [[illegible]

[illegible] -0.872904 [illegible] -0.87263

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

$\frac{15}{22}$ $\frac{30}{44}$

$$\sec = \min \times \frac{\sec}{\min}$$

$$180 \sec = 3 \min \times 60 \ \sec$$

[illegible] 480 [illegible]

[illegible] 1380 [illegible] 3 [illegible]

[illegible]

[illegible] x [illegible]

$$\frac{x\ \boldsymbol{mg}}{180\ \boldsymbol{lb}} = \frac{2\ \boldsymbol{mg}}{140\ \boldsymbol{lb}}$$

[illegible] x [illegible] $x = 180 \cdot \frac{2}{140} = 2.57143$ [illegible]

[illegible]

[illegible]

$$7\,\frac{\boldsymbol{dollars}}{\boldsymbol{hour}}\times 22\ \boldsymbol{hours}+(7+\boldsymbol{r})\ \boldsymbol{dollars}$$

[illegible] $1\frac{1}{2}$ [illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] n [illegible] n [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] ≈ [illegible]

[illegible]

[illegible]

[illegible]

[illegible] $\frac{5}{8}$ [illegible]

[illegible] $\frac{3}{7}$ [illegible]

[illegible]

[illegible]

[illegible]

[illegible] ≈ [illegible]

[illegible]

[illegible] ≈ [illegible]

[illegible]

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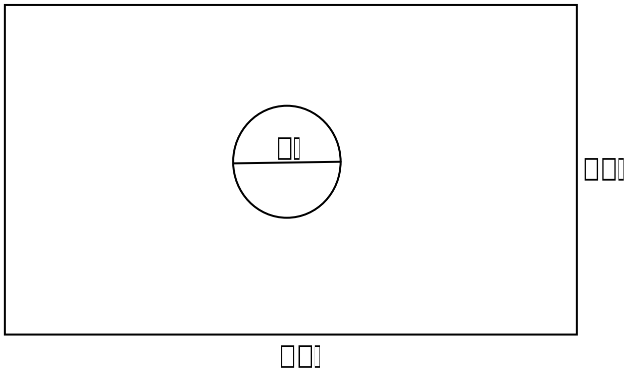
[illegible] ***A*** [illegible] ***P***

[illegible]



[illegible] $A = lw$ [illegible] $l = 40$ [illegible] $w = 25$ [illegible] $A = \pi r^2$ [illegible] $r = 3$ [illegible]

$$\mathbf{Tiled\ Area} = lw - \pi r^2 = 40 \cdot 25 - \pi \cdot 3^2 = 1000 - 9\pi \approx 971.726$$

[illegible]

$$\mathbf{Cost} = (1000 - 9\pi)\ ft^2 \times 3\frac{dollars}{ft^2} \approx 2915.18$$

[illegible] \$2,915 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] n [illegible] n [illegible]

[illegible] n [illegible] n [illegible]

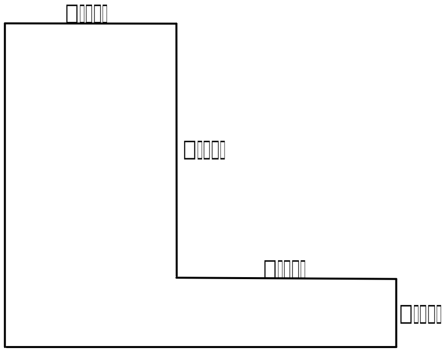
[illegible] n [illegible] n [illegible]

[illegible] n [illegible] n [illegible]

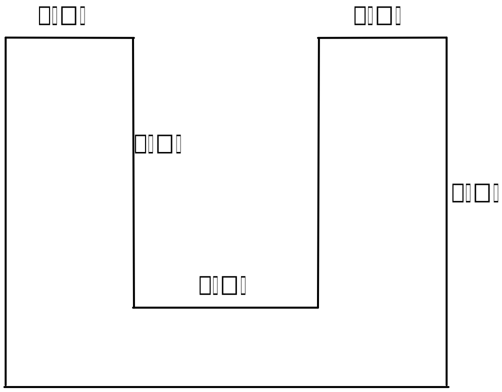
[illegible] b [illegible] b [illegible]

[illegible]

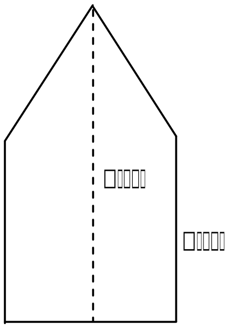
[illegible]

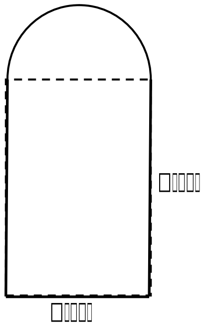


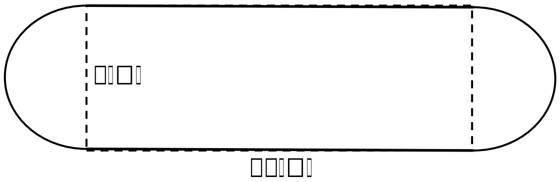
[illegible]



[illegible]

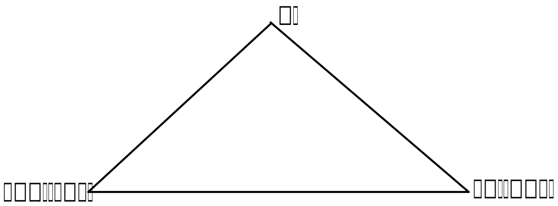






$(-1,2)$ $(5,2)$ $(8,1)$ $(5,-3)$ $(-1,-3)$ $(-3,-1)$ $(-1,2)$

[illegible] y [illegible] P [illegible]



[illegible]

[illegible]

[illegible] 90^o [illegible]

[illegible]

[illegible] $\boldsymbol{a}^2 + \boldsymbol{b}^2 = \boldsymbol{c}^2$ [illegible]

[illegible] k [illegible]

[illegible]

$$|AB| = k|A'B'| \qquad |AC| = k|A'C'| \qquad |BC| = k|B'C'|$$

[illegible] $|AB|$ [illegible] AB [illegible] ABC [illegible] $A'B'C'$ [illegible] $k<1$ [illegible] ABC [illegible] $A'B'C'$ [illegible] $k>1$ [illegible] ABC [illegible] $A'B'C'$ [illegible] $k=1$ [illegible]

[illegible] k [illegible]

$$k = \frac{|AB|}{|A'B'|} = \frac{|AC|}{|A'C'|} = \frac{|BC|}{|B'C'|}$$

[illegible]

[illegible]

$$\frac{|\boldsymbol{DE}|}{|\boldsymbol{BC}|} = |\boldsymbol{AD}$$

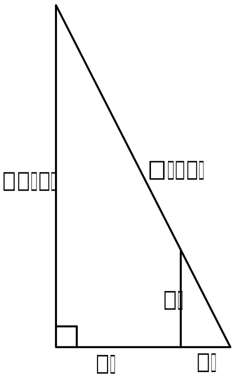
$$18\,\frac{\boldsymbol{feet}}{\sec}\times 5\sec = 90\ \boldsymbol{feet}$$

[illegible] $\boldsymbol{d}$ [illegible]

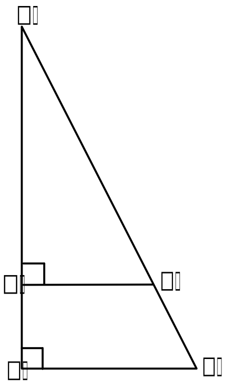
$$\boldsymbol{d}^2 = 50^2 + 90^2 = 10600$$

[illegible] $\boldsymbol{d} = \sqrt{10600} \approx$

[illegible]



[illegible] AD [illegible] AB [illegible] DE [illegible] B [illegible] D [illegible] ABC [illegible]

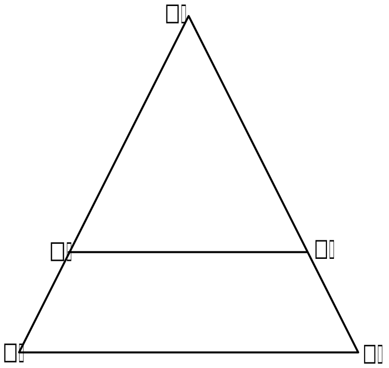


[illegible]

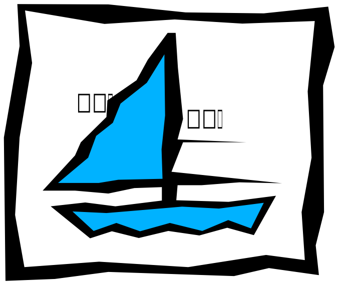
[illegible]

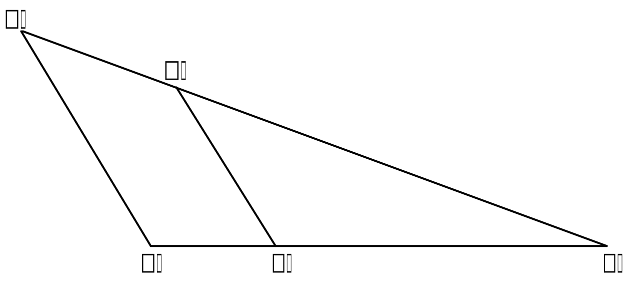
[illegible]

[illegible] *ABC* [illegible] *DE* [illegible] *BC* [illegible] *AD* [illegible] *AB* [illegible] *DE* [illegible] *ABC* [illegible]



[illegible]





[illegible] $\frac{x^{-3}y^{-2}}{x^5y^{-7}z^{-4}}$ [illegible]

[illegible]

$$\frac{x^{-3}y^{-2}}{x^5y^{-7}z^{-4}} = x^{-3}\cdot\frac{1}{x^5}\cdot y^{-2}\cdot\frac{1}{y^{-7}}\cdot\frac{1}{z^{-4}}$$ [illegible]

$$= \frac{1}{x^3}\cdot\frac{1}{x^5}\cdot\frac{1}{y^2}\cdot y^7\cdot z^4$$ [illegible] $a^{-n}=\frac{1}{a^n};\ a^n=\frac{1}{a^{-n}}$

$$= \frac{y^7z^4}{x^3}$$

$$\left(\frac{\boldsymbol{a}^2\boldsymbol{b}}{\boldsymbol{c}^3}\right)^{-2} = \frac{(\boldsymbol{a}^2\boldsymbol{b})^{-2}}{(\boldsymbol{c}^3)^{-2}}$$

$$\frac{(-2)^3}{-3}=\frac{-8}{-3}=\frac{8}{3}$$

[illegible]

[illegible]

[illegible] $(-2\boldsymbol{x}^4)^3$ [illegible] $(6\boldsymbol{y})^3$ [illegible] $(-3\boldsymbol{a}^4\boldsymbol{bc}^5)^2$

[illegible]

[illegible] $x^3x^{-4}; \quad x = 5$

[illegible] $(x^{-2})^3; \quad x = -2$

[illegible] $(2x^{-1})^3; \quad x = 3$

[illegible] $(x^2+y^2)^{-1}; \quad x = -1, y = 2$

[illegible] $x^{-2}+y^{-2};$ [illegible]

[illegible]

[illegible]

[illegible] a [illegible]
[illegible] $\sqrt{a}$ [illegible] a

[illegible] x [illegible] $\sqrt{x^2} = x$ [illegible] x [illegible] x^2 [illegible] $\sqrt{x^6} = \sqrt{(x^3)^2} = x^3$ [illegible] $\sqrt{x^{18}} = \sqrt{(x^9)^2} = x^9$ [illegible] x [illegible] $\sqrt{x^9}$ [illegible]

$$\sqrt{x^9} = \sqrt{x^8 x} = \sqrt{x^8}\sqrt{x} = x^4\sqrt{x}$$

[illegible]

[illegible] $\sqrt{36x^4y^7}$ [illegible] $\sqrt{27x^5}$ [illegible] $\sqrt{\dfrac{8x^2y^4}{x^6y}}$ [illegible] $\sqrt{\dfrac{40x^3y^2z}{2x^{-5}y^{-3}}}$

[illegible] $\sqrt{36x^4y^7}$ [illegible]

$\sqrt{36x^4y^7} = \sqrt{36}\sqrt{x^4}\sqrt{y^7}$ [illegible]

$= 6\sqrt{x^4}\sqrt{y^6y}$ $\sqrt{36} = 6$ [illegible] $y^7 = y^6y$

$= 6\sqrt{x^4}\sqrt{y^6}\sqrt{y}$ [illegible]

$= 6x^2y^3\sqrt{y}$ [illegible] $\sqrt{x^4} = x^2$ [illegible] $\sqrt{y^6} = y^3$

[illegible] $\sqrt{36x^4y^7}$ [illegible]

$\sqrt{27x^5} = \sqrt{9\cdot 3x^4x}$ [illegible] $27 = 9$

[illegible]

[illegible] $\sqrt{x^3y^4}; \quad x=3, y=2$ [illegible] $\sqrt{x^3y^5}; \quad x=4, y=7$

[illegible] $\sqrt{44x^5}; \quad x=7$ [illegible] $\sqrt{98x^6}; \quad x=2$

[illegible] $\sqrt{\dfrac{18x^5}{2x^{-2}}}; \quad x=4$ [illegible] $\sqrt{\dfrac{x^3y^{-4}}{x^7y^{-2}}}; \quad x=3, y=5$

[illegible]

[illegible] m/n [illegible] m [illegible] n [illegible] $n > 0$ [illegible]

$$a^{m/n} = \left(\sqrt[n]{a}\right)^{m} \quad \textit{or equivalently} \quad a^{m/n} = \sqrt[n]{a^{m}}$$

[illegible] a [illegible] n [illegible] $a \geq 0$ [illegible]

[illegible]

[illegible]

[illegible] p [illegible] q [illegible]

[illegible]

[illegible]		[illegible]
[illegible] $a^{p}a^{q} = a^{p+q}$	$5^{3/2}5^{1/2} = 5^{3/2+1/2} = 5^{2} = 25$	$8^{-1/3}8^{2/3} = 8^{-1/3+2/3} = 8^{1/3} = 2$
[illegible] a^{p}		

$\sqrt[3]{2}$ $2^{1/3}$

[illegible] $\frac{a^p}{a^q} = a^{p-q}$ [illegible] $\frac{1}{a^q} = a^{-q}$ [illegible] $p = 0$ [illegible]

$5^{-2/3} = \quad 1$

$$\left(-\frac{8}{27}\right)^{2\ 3}$$

[illegible]

[illegible] $\frac{1}{\sqrt{3}}$ [illegible] [illegible] $\sqrt[3]{7^2}$ [illegible] [illegible] $\sqrt{5^3}$ [illegible] [illegible] $\frac{1}{\sqrt[3]{x^7}}$

[illegible]

[illegible]

[illegible]

[illegible] $3x^2-7x-4$ [illegible]

$$6(2x^2-3x+8)=12x^2-18x+48 \qquad \textbf{\textit{and}} \qquad 2x^3(x^2-4)=2x^5-8x^3$$

[illegible]

[illegible]

[illegible]

[illegible] $3(x^2-x+5)-2(4x^2-5x-3)$

[illegible] $3x^2-5x+4$ [illegible] x^3-x^2+6x

[illegible] $3x^2(x-4)+4(x^3+7x^2-5)$

$$= 3\boldsymbol{x}^3 - 12\boldsymbol{x}^2 + 4\boldsymbol{x}^3 + 28$$

[illegible]

[illegible]

[illegible] $2x^2(x^3-8x)$ [illegible]

$$2x^2(x^3-8x)=2x^2\cdot x^3-2x^2\cdot 8x=2x^5-16x^3$$

[illegible] $(2x-3)(4x+5)$ [illegible] $4x+5$ [illegible]

$$(2x-3)(4x+5)=2x(4x+5)-3(4x+5)$$

[illegible]

$$=2x\cdot 4x+2x\cdot 5-3\cdot 4x-3\cdot 5$$

[illegible]

$$=8x^2+10x-12x-15$$

[illegible]

$$=8x^2-2x-15$$

[illegible]

[illegible]

[illegible]

[illegible] $3x^2y(x^4-2x^2y^2+5y^4)$ [illegible] $\left(2x+3y\right)^2$

[illegible] $5(2a^2-3b^2)(4a^2+b^2)$ [illegible] $(x+2y)(x^2-3xy+y^2)$

[illegible]

$$3x^2y(x^4-2x^2y^2+5y^4)=3x^6y-6x^4y^3+15x^2y^5$$

[illegible]

[illegible] $\left(2x+3y\right)^2$ [illegible]

$$\left(2x+3y\right)^2=(2x+3y)(2x+3y)$$

[illegible] $\left(2x+3y\right)^2$

$$=2x\cdot 2x+2x\cdot 3y+3y\cdot 2x+3y\cdot 3y$$

$$=4x^2+6xy+6xy+9y^2$$

[illegible]

$$=4x^2+12xy+9y^2$$

[illegible]

[illegible]

[illegible] $= \boldsymbol{x}^3 - \boldsymbol{x}^2\boldsymbol{y} - 5\boldsymbol{x}\boldsymbol{y}^2 + 2\boldsymbol{y}^3$ [illegible]

[illegible]

[illegible]

[illegible]

[illegible] $a(b+c)$ [illegible] $ab+ac$ [illegible] $ab+ac$ [illegible]

[illegible] -12	[illegible]	[illegible]
$12, -1$	$(x+12)(x-1)$	$11x$
$-12, 1$	$(x-12)(x+1)$	$-11x$
$6, -2$	$(x+6)(x-2)$	$4x$
$-6, 2$	$(x-6)(x+2)$	$-4x$
$4, -3$	$(x+4)(x-3)$	x
$-4, 3$	$(x-4)(x+3)$	$-x$

[illegible] $x^2+4x-12=(x+6)(x-2)$ [illegible] $4x$ [illegible]

[illegible] $x^2-x-12=(x-4)(x+3)$ [illegible] $-x$ [illegible]

[illegible] $x^2+2x-12$ [illegible] $2x$ [illegible] $x^2+2x-12$ [illegible]

[illegible]

[illegible]

[illegible] $3x^2-13x-10$ [illegible] $3x^2+7x-10$ [illegible] $3x^2-5x-10$

[illegible] 3 [illegible] x^2 [illegible] -10 [illegible]

[illegible] 3	[illegible] -10	[illegible]	[illegible]
$3, 1$	$10, -1$	$(3x+10)(x-1)$ $(3x-1)(x+10)$	$7x$ $29x$
$3, 1$	$-10, 1$	$(3x-10)(x+1)$ $(3x+1)(x-10)$	$-7x$ $-29x$
$3, 1$	$5, -2$	$(3x+5)(x-2)$ $(3x-2)(x+5)$	$-x$ $13x$
$3, 1$	$-$		

[illegible]

$$A^2-B^2=(A-B)(A+B)$$

[illegible] $25x^2-9$ [illegible] x^2-4y^2 [illegible] a^4-16b^4 [illegible]

[illegible] $25x^2-9=(5x)^2-(3)^2$ [illegible] $A=5x$ [illegible] $B=3$ [illegible]

$25x^2-9=(5x)^2-(3)^2$ [illegible]

$=(5x-3)(5x+3)$ [illegible]

[illegible] $x^2-4y^2=(x)^2-(2y)^2$ [illegible]

$A=$

$$8\boldsymbol{x}^3\boldsymbol{y}^2 - 2\boldsymbol{x}\boldsymbol{y}^4 = 2\boldsymbol{x}\boldsymbol{y}$$

□□ $5x^2-23x+24=(5x\qquad)(x\qquad)$

□□ $5x^2+14x-24=(5x\qquad)(x\qquad)$

□□□□□□□□□□□□□□□□□□

□□ $2x^2+5x-3$

□□ $2y^2-19y-10$

□□ $3a^2+8a+5$

□□ $5x^2+7x-6$

□□ $3t^2+13t-10$

□□ $3y^2-2y-1$

□□ $4x^2-4x-3$

□□ $4x^2-11x-3$

□□ $9a^2-18a-16$

□□ $4y^2+12y+9$

□□ $6x^2-x-12$

□□ $2y^2-11y+14$

□□ $6b^2+7b-3$

□□ $4s^2-9s+2$

□□ $15x^2+16x+4$

□□ $8t^2+5t-22$

□□ $2x^2+xy-6y^2$

□□ $2s^2-11st+5t^2$

□□ $6a^2-7ab+2b^2$

□□ $9x^2+24$

$6x^2-xy-12y^2$

$3x^2+10xy-24y^2$

$5ab^2x^2-10ab^2x-15ab^2$

$24a^2-18ab+3b^2$

x^4+5x^2+6

$2x^4-5x^2+3$

x^4-y^4

$a^6(a+1)^2+a^7(a+1)$

$(x-2)(x+5)^2+(x-2)^2(x+5)$

$x^2(x^2-1)-9(x^2-1)$

$9x^4-49$

$5a^3-125a$

$x^2(x-3)-4(x-3)$

$a^2(x-y)-b^2(x-y)$

$5x^4-80y^4$

$4x^2+24xy+36y^2$

[illegible] $\frac{a^2b^3-a^2b}{a^2b+a^2}$ [illegible]

$$\frac{a^2b^3-a^2b}{a^2b+a^2}=\frac{a^2(b^3-b)}{a^2(b+1)}$$

[illegible] a^2 [illegible]

$$=\frac{b(b^2-1)}{b+1}$$

[illegible] a^2 [illegible] b^3-b

$$=\frac{b(b-1)(b+1)}{b+1}$$

[illegible] $b^2-1=(b-1)(b+1)$

$$=b(b-1)$$

[illegible] $b+1$

[illegible] $\frac{y^2-x^2}{x^2-xy}$ [illegible]

$$\frac{y^2-x^2}{x^2-xy}=\frac{(y-x)(y+x)}{x(x-y)}$$

[illegible]

$$=\frac{-(x-y)(y+x)}{x(x-y)}$$

[illegible] $y-x=-(x-y)$

$$=-\frac{y+x}{x}$$

[illegible] $x-y$

[illegible]

[illegible]

[illegible] $\frac{45a^3b^4}{9a^5b}$

[illegible]

$$\frac{18x^4y^7}{24x^8y^4z}$$

$$\frac{6(x+4)^3(x-2)^2}{30(x+4)^2}$$

$$\frac{4(a-b)(a+b)^2}{7(b-a)(a+b)^2}$$

$$\frac{(x-2)(3x+5)^2}{(2-x)(3x+5)^3}$$

$$\frac{x^3+3x^2}{x^2+2x^4}$$

$$\frac{3x^2-15x}{12x-60}$$

$$\frac{a^2b^2+a^2b^4}{a^2b^2+a^4b^2}$$

$$\frac{x^2y}{x^2y+x^4y^2}$$

$$\frac{x^3yz+xy^3z+xyz^3}{x^2y^2z^2}$$

$$\frac{6t^4-18t^3}{4t^2-12t}$$

$$\frac{t^3-2t^2+t}{t^2-t}$$

$$\frac{2a^2b^2-10a^6b^8}{2a^2b^2}$$

$$\frac{x^2-4}{x+2}$$

$$\frac{x^2+4x+3}{x+1}$$

$$\frac{x^2+6x+8}{x^2+5x+4}$$

$$\frac{(a-3)^2}{a^2-9}$$

$$\frac{x^2+2x-3}{x^2+x-6}$$

$$\frac{6x+12}{x^2+5x+6}$$

$$\frac{4x^2-4}{12x^2+12x-24}$$

$$\frac{4y^3+4y-8y}{2y^3+4y-6y}$$

$$\frac{y^2-y-12}{y^2+5y+6}$$

$$2x^2+5x-3$$
$$3x^2+11x+$$

$3\boldsymbol{x}^{2} +$

$$=\frac{x^5}{5x-10}\cdot\frac{2x-4}{x^2}$$ [illegible] $\frac{x^2}{2x-4}$ [illegible]

$$=\frac{x^5}{5(x-2)}\cdot\frac{2(x-2)}{x^2}$$ [illegible] $2x-4$ [illegible] $5x-10$ [illegible]

$$=\frac{2x^3}{5}$$

$\frac{3x^2}{x^2-9}\cdot\frac{x+3}{12x}$

$\frac{2x^2+7x-4}{2x^2-3x+1}\cdot\frac{3-x}{x-3}$

$\frac{x^2-x-6}{x^2-1}\cdot\frac{x+1}{x-3}$

$\frac{x^2+5x+6}{x^2+2x}\cdot\frac{x^3+x}{x^2+4x+3}$

$\frac{x^2y+3xy^2}{x^2-9y^2}\cdot\frac{x^2-2xy-3y^2}{5x^2y}$

$\frac{2x^2+3x+1}{x^2+2x-15}\div\frac{x^2+6x+5}{2x^2-7x+3}$

$\frac{x^4}{x+2}\div\frac{x^3}{x^2+4x+4}$

$\frac{3x^2+2x-1}{x^2-1}\cdot\frac{x^2-2x+1}{3x^2-7x+2}$

$\frac{2a^2-ab-b^2}{a^2-2ab+b^2}\cdot\frac{2a^2+ab-3b^2}{2a^2+3ab+b^2}$

$\frac{x^2-2x-15}{x^2-4x-5}\cdot\frac{x^2+8x+7}{x^2+7x+12}$

[illegible] $x-2$ [illegible] $x+1$ [illegible] $(x-2)(x+1)$ [illegible] $\frac{2}{x-2}$ [illegible] $\frac{3}{x+1}$ [illegible] $(x-2)(x+1)$ [illegible]

$$\frac{2}{x-2}-\frac{3}{x+1}=\frac{2(x+1)}{(x-2)(x+1)}-\frac{3(x-2)}{(x+1)(x-2)}$$

[illegible] $(x-2)(x+1)$

$$=\frac{2(x+1)-3(x-2)}{(x-2)(x+1)}$$

[illegible]

$$=\frac{2x+2-3x+6}{(x-2)(x+1)}$$

[illegible]

$$=\frac{-x+8}{(x-2)(x+1)}$$

[illegible]

[illegible]

[illegible] $2y+\frac{3}{y+1}$ [illegible] $\frac{1}{x^2+4x+4}-\frac{x+1}{x^2-4}$ [illegible] $\frac{3}{t}-\frac{2}{t+2}+\frac{4}{t^2+2t}$

[illegible] $2y$ [illegible] 1 [illegible] 1 [illegible] $y+1$ [illegible] $y+1$ [illegible] $2y$ [illegible] $\frac{3}{y+1}$ [illegible] $y+1$ [illegible]

$$2y+\frac{3}{y+1}=\frac{2y(y+1)}{y+1}+\frac{3}{y+1}$$

$$\frac{1}{\boldsymbol{x}^2+4\boldsymbol{x}+4}-\frac{\boldsymbol{x}+1}{\boldsymbol{x}^2-4}=\frac{1}{(\boldsymbol{x}+2)^2}-\frac{\boldsymbol{x}+1}{(\boldsymbol{x}-2)(\boldsymbol{x}+2)}$$ [illegible]

[illegible]

$$=\frac{\boldsymbol{x}-2}{(\boldsymbol{x}+2)^2(\boldsymbol{x}-2)}-\frac{(\boldsymbol{x}+1)(\boldsymbol{x}+2)}{(\boldsymbol{x}-2)(\boldsymbol{x}+2)(\boldsymbol{x}+2)}$$ [illegible]

x

[illegible] x [illegible]

[illegible] $7x-20=2x-5$ [illegible] $2(3x-1)-5(2-x)=7$ [illegible]

[illegible] x [illegible] $7x-20=2x-5$ [illegible] x [illegible] x [illegible]

[illegible]

$\frac{2x-1}{3}=\frac{x+1}{4}$ [illegible]

$12\left(\frac{2x-1}{3}\right)=12\left(\frac{x+1}{4}\right)$ [illegible] 12

$4(2x-1)=3(x+1)$ [illegible]

$8x-4=3x+3$ [illegible]

$5x=7$ [illegible] 4 [illegible] $3x$

$x=\frac{7}{5}$ [illegible] 5

[illegible] $x=0.15x+2000$ [illegible] $0.15x$ [illegible] $x-0.15x=2000$ [illegible] x [illegible]

$$x-0.15x=(1-0.15)x=0.85x$$

$30\left(\frac{4}{5}\boldsymbol{x}\right)=30\left(\frac{2}{3}\boldsymbol{x}+\frac{1}{6}\right)$ 30

$24\boldsymbol{x}=20\boldsymbol{x}+5$

4

$\frac{5}{9}(27)=\frac{5}{9}\left(\frac{9}{5}C\right)$ [illegible] $\frac{5}{9}$

$15=C$ [illegible]

[illegible] 15 [illegible]

[illegible]

[illegible] x [illegible]

[illegible] $3x-5=13$ [illegible] $6-2x=-8$

[illegible] $5=3x-9$ [illegible] $-2=4-x$

[illegible] $3x+7=5x-11$ [illegible] $9x+4=-4x-7$

[illegible] $2(3x-7)=8x+10$ [illegible] $4(x-1)=6(3-2x)$

[illegible] 5

□□□ $0.05\boldsymbol{x}=\boldsymbol{x}-190$□ □ □ □ □□□ $0.07\boldsymbol{x}+0.05(1000-\boldsymbol{x})=65$□

□

□□□ $25=\frac{5}{3}(\boldsymbol{x}-12)$□ □ □ □ □□□ $16=\frac{4}{7}\boldsymbol{x}-8$□

□

□□□ $\frac{1}{4}\boldsymbol{x}-\frac{2}{3}=1$□ □ □ □ □□□ $\frac{7}{5}\boldsymbol{x}-7=2.8$□

□

□□□ $\frac{2}{5}(\boldsymbol{x}+3)=\boldsymbol{x}-1$□ □ □ □ □□□ $18\pi+6\pi$

[illegible] $\frac{r}{a}-\frac{3t}{b}=2$ [illegible] ab [illegible] t [illegible]

$\frac{r}{a}-\frac{3t}{b}=2$ [illegible]

$ab\left(\frac{r}{a}-\frac{3t}{b}\right)=2ab$ [illegible] ab

$br-3at=2ab$ [illegible]

$br-2ab=3at$ [illegible] $3at$ [illegible] $2ab$

$\frac{br-2ab}{3a}=t$ [illegible] $3a$

[illegible] [illegible] $t=\frac{br-2ab}{3a}$ [illegible]

[illegible]

[illegible] $ax-3(b-cx)=dx;\ for\ x$ [illegible] $\frac{x-a}{y+b}=\frac{cx}{d};\ for\ x$

[illegible] $-3(b-cx)=-3b+3cx$ [illegible] x [illegible]

$ax-3(b-cx)=dx$ [illegible]

$ax-3b+3cx=dx$ [illegible]

$ax+3cx-dx=3b$ [illegible] $3b$ [illegible] dx

$(a+3c-d)x=3b$ [illegible] x

$x=\frac{3b}{a+3c-d}$ [illegible] @+

[illegible] $\frac{x-a}{y+b}=\frac{cx}{d}$ [illegible]

$d(y+b)$ [illegible]

V r h $V=\frac{1}{3}\pi r^2 h$

h

$F=\frac{9}{5}C+32$ C

F C

z x $z=\frac{x-\bar{x}}{s}$

$\bar{x}$ s cm l l

$0.75x = 247.50$ [illegible]

$0.75x = \frac{247.50}{0.75}$ [illegible] 0.75

$x = 330$ [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

x [illegible]

$0.03\boldsymbol{x}+0.035(50000-\boldsymbol{x})=1687.50$ [illegible]

$0.03\boldsymbol{x}$

$2x+2(x+3)$ [illegible]

[illegible] $2x+2(x+3)$ [illegible]

$7.50\left(2x+2(x+3)\right)=345$ [illegible]

[illegible]

$7.50\left(2x+2(x+3)\right)=345$ [illegible]

$7.50\left(4x+6\right)=345$ [illegible]

$30x+45=345$ [illegible]

$30x=300$ [illegible] 45

$x=10$ [illegible] 30

[illegible] $x=10$ [illegible] $x+3=13$ [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

t [illegible]

[illegible]

$$2\text{ min}\times\frac{1\,\textbf{\textit{hour}}}{60\text{ min}}=\frac{1}{30}\,\textbf{\textit{hour}}$$

$t+\frac{1}{30}$ [illegible]

[illegible]

$\frac{1}{3}x$ [illegible]

[illegible]

$10x + 25 \frac{1}{2}x$

[illegible] x [illegible] S [illegible] x [illegible] x [illegible] S [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] h [illegible] x [illegible] h [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] $3\frac{1}{2}$ [illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible] x [illegible]

[illegible] x [illegible] x [illegible] x [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[redacted]

[illegible]

[illegible] $\leq$ [illegible] $\geq$ [illegible] $3 \leq 7-2$ [illegible]

[illegible]

$$2x-3 \leq 9$$

[illegible] x [illegible] $2x-3 \leq 9$ [illegible] x [illegible] x [illegible] x [illegible]

x	$2x-3 \leq 9$	[illegible]
[illegible]	$2 \cdot 4-3=5 \leq 9?$	[illegible]
[illegible]	$2 \cdot 5-3=7 \leq 9?$	[illegible]
[illegible]	$2 \cdot 6-3=9 \leq 9?$	[illegible]
[illegible]	$2 \cdot 7-3=11 \leq 9?$	[illegible]

$2x - 3 \leq 9$

$2x \leq 12$ 3

$x \leq 6$ 2

[illegible] $-7 < -3$ [illegible] $-4 < 6$ [illegible]

[illegible] $a < b$ [illegible] (a, b) [illegible] a [illegible] b [illegible] a [illegible] b [illegible] a [illegible] b [illegible] $[a, b]$ [illegible] a [illegible] b [illegible] a [illegible] b [illegible] a [illegible] b [illegible]

[illegible]

$\frac{1}{2}\boldsymbol{x}-\frac{2}{3}\boldsymbol{x}>\frac{1}{3}+\boldsymbol{x}$ [illegible]

$6\frac{1}{2}$

$\frac{2x}{3} < 3.8$

$2-(1-3x) \ge 5-2(3-x)$

$\frac{1}{2}\left(x-\frac{1}{3}\right) > 2$

$7x+1 \le 3-(2x-4)$

$\frac{3}{4}x-\frac{2}{5}x > 1$

$2(1-3x) \le 3(2+x)$

$0.01x+2.6 \ge 1.3$

$-\frac{5}{3}x-18 > x+\frac{1}{3}x$

$\frac{1}{3}x-\frac{1}{4}x \le 5-x$

$\frac{5x}{12} \ge \frac{7x}{18}+\frac{1}{6}$

$$slope = \frac{change\ in\ y}{change\ in\ x} = \frac{-2}{4} = -\frac{1}{2}$$

[illegible] $(6,-1)$ [illegible] $(2,1)$ [illegible] x [illegible] y [illegible]

$$slope = \frac{change\ in\ y}{change\ in\ x} = \frac{2}{-4} = -\frac{1}{2}$$

[illegible]

[illegible] $(1,3)$ [illegible]

[illegible] $(1,3)$ [illegible] x [illegible] y [illegible] $(2,5)$ [illegible] x [illegible] y [illegible]

[illegible]

y [illegible] [[illegible] f [illegible]

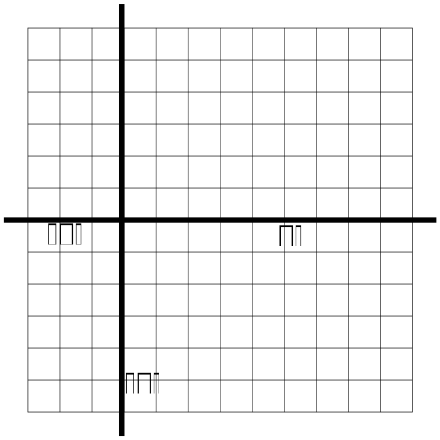
[illegible] $(-4,0),\ (0,2)$ [illegible] $(0,0),\ (4,3)$

[illegible] $(3,-5),\ (3,2)$ [illegible] $(4,-2),\ (4,3)$

[illegible] $(-1,0),\ (-3,0)$ [illegible] $(-2,3),\ (3,-2)$

[illegible] $(-3,-1),\ (1,-2)$ [illegible] $(1,1),\ (4,3)$

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] m [illegible] (x_1, y_1) [illegible]

[illegible]

$$\frac{\textit{change in } y}{\textit{change in } x} = \frac{y-y_1}{x-x_1} = m$$

[illegible] y [illegible]

$\frac{y-y_1}{x-x_1} = m$ [illegible]

$y - y_1 = m(x - x_1)$ [illegible] $x - x_1$

$y = m(x - x_1) + y_1$ [illegible] y_1

$y = mx - mx_1 + y_1$ [illegible]

$y = mx + b$ [illegible] $b = -mx_1 + y_1$

x	$y=\frac{3}{2}x-4$

$2\boldsymbol{x}-3\boldsymbol{y}=6$ [illegible]

$-3\boldsymbol{y}$

[illegible]

[illegible] $(3,1)$ [illegible] $(5,0)$ [illegible] $(3,1)$ [illegible] $(5,0)$ [illegible] x [illegible] 2 [illegible] y [illegible] 1 [illegible]

$$slope = \frac{change\ in\ y}{change\ in\ x} = \frac{-1}{2} = -\frac{1}{2}$$

[illegible]

$$y = -\frac{1}{2}x + b$$ [illegible]

$0 = -\frac{1}{2}(5) + b$ [illegible] [illegible] b [illegible] $b = \frac{5}{2}$ [illegible]

[illegible] $y = -\frac{1}{2}x + \frac{5}{2}$ [illegible]

[illegible]

[illegible] $y=\frac{2}{3}x-4$ [illegible] $y=-\frac{3}{5}x-2$

[illegible] x [illegible] y [illegible]

[illegible] $x+y=4$ [illegible] $3x-2y=6$

[illegible] $2x-5y=0$ [illegible] y

[illegible] -2 [illegible] $(2,3)$ [illegible] x [illegible]

[illegible] y [illegible] -3 [illegible] $(-3,4)$ [illegible]

[illegible] x [illegible] 4 [illegible] $(3,5)$ [illegible]

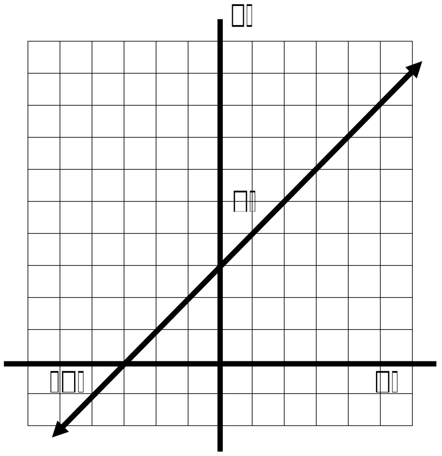
[illegible] x [illegible] -2 [illegible] $(3,3)$ [illegible] y [illegible]

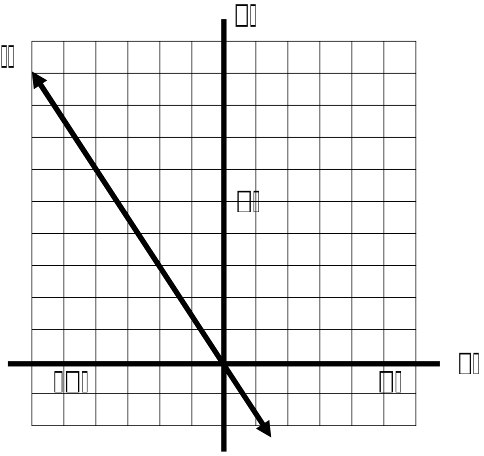
[illegible]

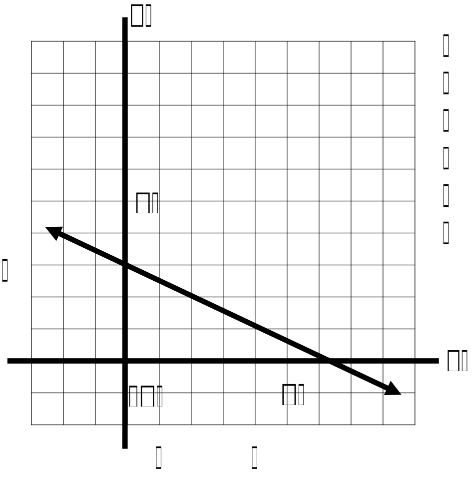
[illegible] y [illegible] -5 [illegible] $(-2,2)$ [illegible] x [illegible]

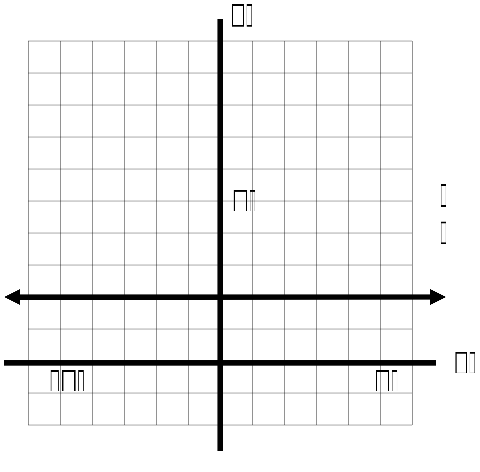
[illegible]

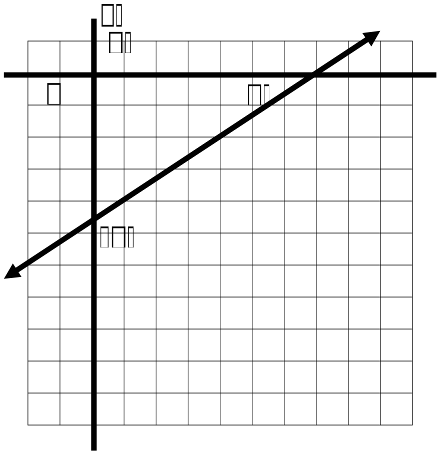
[illegible]

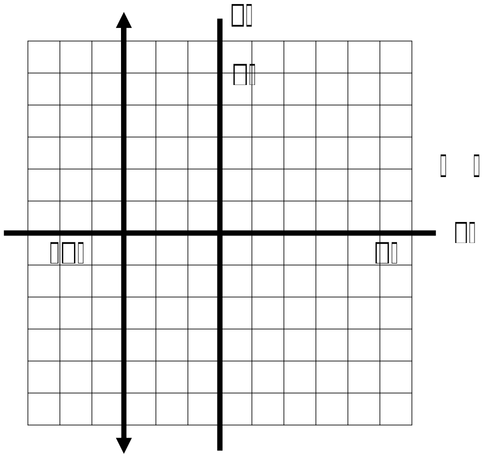


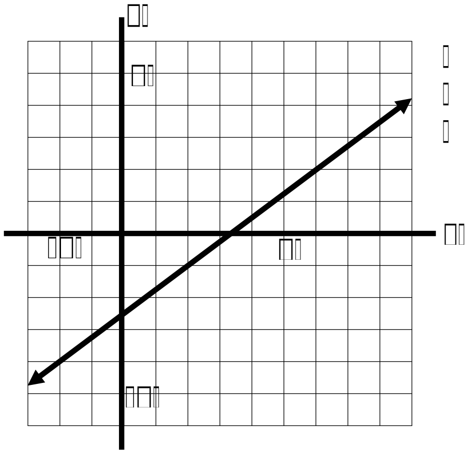


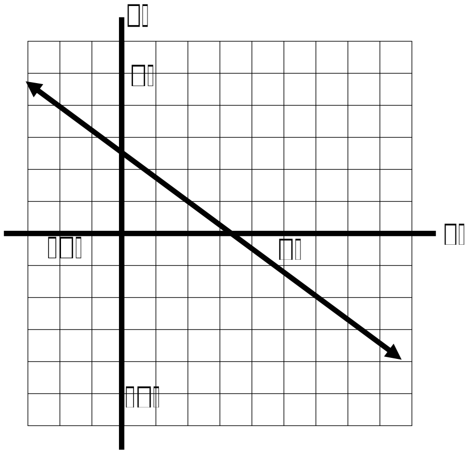












[illegible]

[illegible]

[illegible]

[illegible]

[illegible] m_1 [illegible] m_2 [illegible] $m_1 m_2 = -1$ [illegible]

$$m_2 = -\frac{1}{m_1}$$

[illegible]

[illegible] $(3,-4)$ [illegible] $2x-5y=7$ [illegible]

[illegible] $(3,-4)$ [illegible] $2x-5y=7$ [illegible] $2x-5y=7$ [illegible]

$2x-5y=7$ [illegible]

$-5y=-2x+7$ [illegible] $2x$

$y=\frac{2}{5}x-\frac{7}{5}$ [illegible] -5

[illegible] $\frac{2}{5}$ [illegible]

$y=\frac{2}{5}x+b$ [illegible] b [illegible] y [illegible]

[illegible] $(3,-4)$ [illegible] $y=\frac{2}{5}x+b$ [illegible] b

$-4=\frac{2}{5}(3)+b$ [illegible] b [illegible] $b=-\frac{26}{5}$

[illegible] $y=\frac{2}{5}x-\frac{26}{5}$ [illegible]

[illegible] $(6,2)$ [illegible] $y=\frac{3}{7}x+1$ [illegible]

[illegible] $(6,2)$ [illegible] $y=\frac{3}{7}x+1$ [illegible] $y=\frac{3}{7}x+1$ [illegible] $\frac{3}{7}$ [illegible] $-\frac{7}{3}$ [illegible] $\frac{3}{7}$ [illegible]

$y=-\frac{7}{3}x+b$ [illegible] b [illegible] y [illegible]

[illegible] $(6,2)$ [illegible] $y=-\frac{7}{3}x+b$ [illegible] b [illegible]

$2=-\frac{7}{3}(6)+b$ [illegible] b [illegible] $b=16$ [illegible]

[illegible] $y=-\frac{7}{3}x+16$ [illegible]

[illegible] $(3,-2)$ [illegible] x [illegible] 5 [illegible] $(0,-4)$ [illegible]

[illegible] $(3,-2)$ [illegible] $(5,0)$ [illegible] $(0,-4)$ [illegible] $(0,-4)$ [illegible] $(5,0)$ [illegible] x [illegible] y [illegible]

$$slope=\frac{change\ in\ y}{change\ in\ x}=\frac{4}{5}$$

[illegible] $-\frac{5}{4}$ [illegible] $\frac{4}{5}$

[illegible] $(-1,-2)$ [illegible] $(8,1)$ [illegible] $(-2)\cdot\frac{1}{3}=-\frac{2}{3}$ [illegible] -1 [illegible]

[illegible]

[illegible]

[illegible] $x-4y=6$ ***and*** $-2x+8y=12$ [illegible]

[illegible] $x+3y=9$ ***and*** $-2x-3y=18$ [illegible]

[illegible] $4x+2y=10$ ***and*** $x-2y=4$ [illegible]

[illegible] $3x-4y=12$ ***and*** $4x-3y=24$ [illegible]

[illegible] $2x-3y=6$ ***and*** $y=\frac{3}{2}x+5$ [illegible]

[illegible] $7x-5y=35$ ***and*** $y=-\frac{5}{7}x$ [illegible]

[illegible] $3x+5y=15$ ***and*** $y=-\frac{3}{5}x+7$ [illegible]

[illegible] $8x-3y=0$ ***and*** $y=-\frac{3}{8}x-12$ [illegible]

[illegible] $(-1,4)$ [illegible] $y=3x-2$ [illegible]

[illegible] $(-2,3)$ [illegible] $y=7$ [illegible]

[illegible] $(-2,3)$ [illegible] $x=-5$ [illegible]

[illegible] $(2,1)$ [illegible] $y=\frac{2}{3}x+1$ [illegible]

[illegible] x [illegible] -5 [illegible] $2x+3y$

[illegible] $(4,3)$ [illegible] $x+3y+1=0$ [illegible]

[illegible] $(-1,-3)$ [illegible]
$-5x+3y-15=0$ [illegible]

[illegible]

4596 T33 57438 Td52

[illegible]

[illegible] $(-3,-1)$ [illegible] $(3,3)$ [illegible] $(-9,8)$ [illegible]

$$2(-3)^2 + (-3) - 15 = 18 - 3 - 15 = 0$$

[illegible] $(x-p)^2 = q$ [illegible] p [illegible] q [illegible] $q > 0$ [illegible]

[illegible]

[illegible] $ax^2+bx+c=0$ [illegible] $D=b^2-4ac$ [illegible]

[illegible] $D>0$ [illegible]

[illegible] $D=0$ [illegible]

[illegible] $D<0$ [illegible]

[illegible]

$x = \frac{1+5}{4}$ **or** $x = \frac{1-5}{4}$ [illegible] $+$ [illegible] $-$ [illegible]

[illegible] $x = \frac{3}{2}$ [illegible] $x = -1$ [illegible]

[illegible] $a = 4$ [illegible] $b = -12$ [illegible] $c = 9$ [illegible]

$D = b^2 - 4ac$ [illegible]

$D = (-12)^2 - 4(4)(9)$ [illegible]

[illegible]

$x^2+3x-10=0$ [illegible]

$(x+5)(x-2)=0$ [illegible] $x^2+3x-10$

$x+5=0$ **or** $x-2=0$ [illegible]

$x=-5$ **or** $x=2$ [illegible]

[illegible] $x=-5$ [illegible] $x=2$ [illegible]

[illegible] $a=1$ [illegible] $b=3$ [illegible] $c=-10$ [illegible]

$$x=\frac{-3\pm\sqrt{3^2-4(1)(-10)}}{2(1)}$$

[illegible] $a=1$ [illegible] $b=$

$(x-5)^2=2$ $\qquad$ $x^2+8=0$

$x^2=6x-9$ $\qquad$ $3x^2-13x-10=0$

$\left(x-\frac{3}{2}\right)^2-\frac{1}{4}=0$ $\qquad$ $x^2+x=2$

$3x^2-5x-1=0$ $\qquad$ $2x^2-x-\frac{1}{2}=0$

$4x^2-x-5=0$ $\qquad$ $4(x+1)^2=3$

$(x+2)^2+4=0$ $\qquad$ $x^2-2x-35=0$

$x^2+6x+9=7+9$ [illegible] $\left(\frac{6}{2}\right)^2=9$

[illegible] 9 [illegible] 9 [illegible] x^2+6x [illegible] x^2+6x [illegible]

$(x+3)^2=16$ [illegible] $x^2+6x+9=(x+3)^2$

$x+3=4$ ***or*** $x+3=$

[illegible] $x^2+2x+5=0$ [illegible] $(x$

[illegible]

[illegible]

[illegible]

[illegible] x [illegible] y [illegible] $y = ax^2 + bx + c$ [illegible] $a \neq 0$ [illegible] b [illegible] c [illegible] (x, y) [illegible]

[illegible]

[illegible] $x = 0$ [illegible] $y = 2(x -$

$-x^2+4x$ [illegible]

$=-(x^2-4x)$ [illegible] -1

$=-\left(x^2-4x+4-4\right)$ [illegible] $\left(\frac{-4}{2}\right)^2=4$

$=-\left((x-2)^2-4\right)$ [illegible] $x^2-4x+4=(x-2)^2$

$=-(x-2)^2+4$ [illegible] -1

[illegible] $-x^2+4x$ [illegible] $-(x-2)^2+4$ [illegible] $y=-x^2+4x+5$ [illegible]

$y=(-x^2+4x)+5$

[illegible] $x=-1$ [illegible] $x=5$ [illegible]

[illegible] $-(x-2)^2+9=0$ [illegible]

$-(x-2)^2+9=0$ [illegible]

$(x-2)^2=9$ [illegible] 9 [illegible] -1

$x-2=3$ ***or*** $x-2=-3$ [illegible]

$x=5$ ***or*** $x=-1$

[illegible] $\boldsymbol{y}=-\frac{1}{2}\left(\boldsymbol{x}+\frac{3}{2}\right)^2+\frac{15}{8}$ [illegible] $\boldsymbol{y}=\left(\boldsymbol{x}-\frac{5}{2}\right)^2-\frac{9}{4}$

[illegible] $\boldsymbol{y}=4(\boldsymbol{x}+1)^2-8$ [illegible] $\boldsymbol{y}=\frac{1}{2}\left(\boldsymbol{x}-\frac{3}{2}\right)^2-\frac{25}{8}$

[illegible]

[illegible]

[illegible] $\boldsymbol{x}$ [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] x [illegible] x [illegible]

[illegible] x [illegible] x

[illegible]

[illegible]

[illegible] x [illegible] x [illegible]

[illegible]

[illegible]

x [illegible]

[illegible] x [illegible]

$x+3$ [illegible]

[illegible] x [illegible]

$x(x+3)$ [illegible]

[illegible]

$$2.50\,\frac{\boldsymbol{dollars}}{\boldsymbol{ft}^2}\times \boldsymbol{x}(\boldsymbol{x}+3)\ \boldsymbol{ft}^2 = 2.50\,\boldsymbol{x}(\boldsymbol{x}+3)\ \boldsymbol{dollars}$$

y

[illegible]

$2x + y = 7$ [illegible] $x + 2y = 2$

[illegible] (x, y) [illegible] (x, y) [illegible] $x = 4$ [illegible] $y = -1$ [illegible] $x = 4$ [illegible] $y = -1$ [illegible]

[illegible] $x = 4$ [illegible] $y = -1$ [illegible]

[illegible]

[illegible] **m** [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

$3(2) + 4(-$

[illegible]

$7x+$

[illegible] x

[illegible]

[illegible] $y = 3$ [illegible] 3 [illegible]

[illegible] $y = 3$

[illegible] $x-2y=-4$ [illegible] $-3x+6y=12$ [illegible] -3 [illegible]

[illegible] (x,y) [illegible]

[illegible]

[illegible]

[illegible] $\begin{cases} x+2y=5 \\ y=2x+1 \end{cases}$　　　　[illegible] $\begin{cases} 3x+2y=0 \\ x=y-5 \end{cases}$

[illegible] $\begin{cases} x=3y-7 \\ x=-y+1 \end{cases}$　　　　[illegible] $\begin{cases} y=2x-3 \\ y=-3x+17 \end{cases}$

[illegible] $\begin{cases} x-y=3 \\ 3x+y=5 \end{cases}$　　　　[illegible] $\begin{cases} x+y=8 \\ 3x-2y=-1 \end{cases}$

[illegible] $\begin{cases} 2x+y=5 \\ -x+3y=8 \end{cases}$　　　　[illegible] $\begin{cases} 3x+4y=1 \\ 2x-y=19 \end{cases}$

[illegible] $\begin{cases} 2x+3y=10 \\ 2x+y=-6 \end{cases}$　　　　[illegible] $\begin{cases} 3x+2y=5 \\ x+y=4 \end{cases}$

[illegible] $\begin{cases} 2x+4y=-9 \\ x-4333 \end{cases}$

$\begin{cases} 2x+3y=-1 \\ 4x+2y=2 \end{cases}$　　　　$\begin{cases} 3x-4y=6 \\ -9x+5y=-18 \end{cases}$

$\begin{cases} 5x-3y=0 \\ 3x+y=14 \end{cases}$　　　　$\begin{cases} x+5y=1 \\ x-3y=9 \end{cases}$

$\begin{cases} 3x-2y=4 \\ 5x-3y=7 \end{cases}$　　　　$\begin{cases} 2x+3y=12 \\ 7x-5y=11 \end{cases}$

$\begin{cases} 4x-3y=5 \\ 2x+6y=5 \end{cases}$　　　　$\begin{cases} 4x-10y=-1 \\ 8x+5y=8 \end{cases}$

[illegible]

[illegible] $\begin{array}{l} x+y=3 \\ 2x-y=0 \end{array}$ [illegible] $\begin{array}{l} 2x-3y=9 \\ x+2y=1 \end{array}$

[illegible] $\begin{array}{l} y=x+3 \\ y=2x-1 \end{array}$ [illegible] $\begin{array}{l} 2x+y=-1 \\ x-2y=-8 \end{array}$

[illegible] $f(x)=\frac{x^2}{x^3+1}$ [illegible] $x=-2,0,1,2,3$ [illegible]

[illegible] f [illegible] 1 [illegible] f [illegible] x [illegible] $\frac{x^2}{x^3+1}$ [illegible]

[illegible]

$f(-2)=\frac{(-2)^2}{(-}$

[illegible] $\{x \in \boldsymbol{R} : x \neq -1\}$ [illegible] x [illegible] $\boldsymbol{R}$ [illegible] $x \neq -1$ [illegible]

[illegible] f [illegible]

$$\boldsymbol{Domain}(f) = (-\infty, -1) \cup (-1, \infty)$$

[illegible] $(-\infty, -1)$ [illegible] -1 [illegible] $(-1, \infty)$ [illegible] -1 [illegible]

$x \geq \frac{3}{2}$ [illegible] 2

[illegible] f [illegible]

$Domain(f) = \ x \in \ R : x \geq$

□□□ $f(x)=\sqrt{2x+1}$□□ $x=-\frac{1}{2},0,\frac{1}{2},\frac{3}{2},\frac{5}{2},4$□

□

□□□ $f(x)=\frac{x^2-1}{x^2+1}$□□ $x=-2,-1,0,1,2$□

□

□□□ $f(x)=\sqrt{x^2+x-2}$□□ $x=-5,-3,-2,1,2,5$□

□

□□□□ $f(x)=x+\frac{1}{x^2+1}$□□ $x=-2,-1,0,1,2$□

□

□□□□ $f(x)=\frac{1}{2x+1}+\frac{1}{2x-1}$

s

f

$Domain(f) = -$

$$\frac{2}{x+1}+\frac{1}{x-1}=\frac{5}{x^2-1}$$

[illegible] $|3x+5|=8$ [illegible]

[illegible] 8 [illegible] 8 [illegible] -8 [illegible] $3x+5$ [illegible] 8 [illegible] -8 [illegible] $3x+5=8$ [illegible] $3x+5=-8$ [illegible]

$3x+5=8$ [illegible]

$3x=3$ [illegible] 5

x

[illegible] $4\sqrt{7-3x}=12$ [illegible] $\frac{2}{x-1}+\frac{1}{x^2+x-2}=\frac{1}{x+2}$

[illegible] $\left|9-2x\right|=7$ [illegible] $\sqrt{\left|2x+6\right|}=4$

[illegible] $\frac{3}{x}-\frac{2}{x+1}$

[illegible]

[illegible]

[illegible]

[illegible]