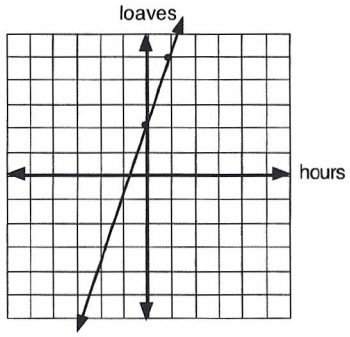
6A

1)

hours	loaves
0	2
1	5
2	8
3	11

2) on the graph

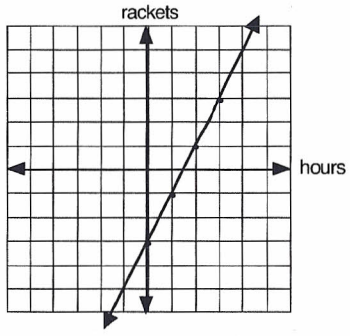


3) L = 3H + 2

4)

hours	rackets
0	-3
1	-1
2	1
3	3

5) on the graph

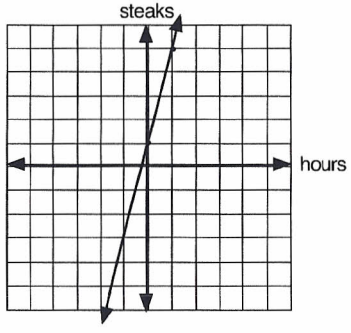


6) R = 2H - 3

7)

hours	steaks
0	1
1	5
2	9
3	13

8) on the graph

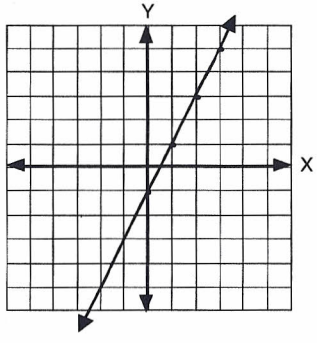


9) S = 4H + 1

10)

X	Y
0	-1
1	1
2	3
3	5

11) on the graph



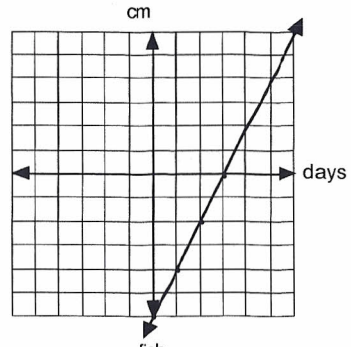
12) Answers will vary. Your problem should start with a negative amount.

6B

1)

weeks	centimeters
0	-6
1	-4
2	-2
3	0

2) on the graph

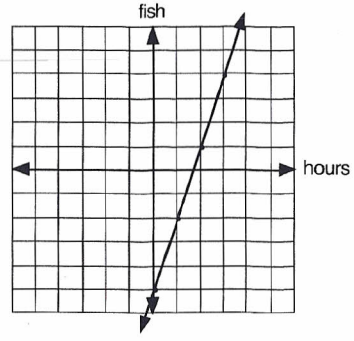


3) C = 2W - 6

4)

hours	fish
0	-5
1	-2
2	1
3	4

5) on the graph

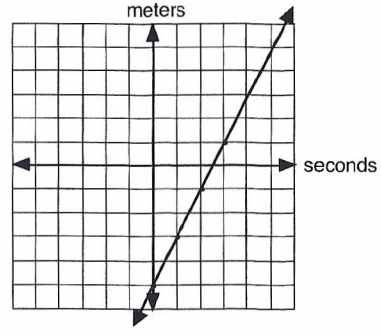


6) F = 3H - 5

7)

seconds	meters
0	-5
1	-3
2	-1
3	1

8) on the graph

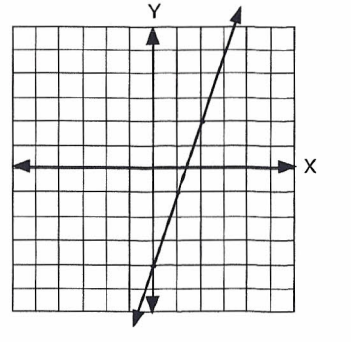


9) M = 2S - 5

10)

X	Y
0	-4
1	-1
2	2
3	5

11) on the graph



12) Answers will vary. Your problem should start with a negative amount.

6C

1)

days	speeches
0	1
1	3
2	5
3	7

2) on the graph

3) 2, 1 S = 2D + 1

4)

years	masterpieces
0	0
1	2
2	4
3	6

5) on the graph

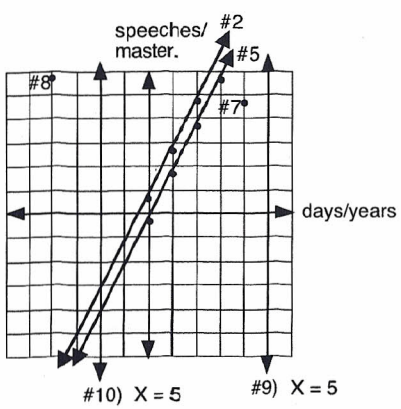
6) M = 2Y

7) quadrant 1

8) quadrant 2

9) on the graph

10) on the graph



11) $63A - 81 = 72$
$9(7A - 9) = 9(8)$
$7A - 9 = 8, \quad 7A = 17, \quad A = 2\ 3/7$

12) $48 + 54X = 36$
$6(8 + 9X) = 6(6)$
$9X = -2, \quad X = -2/9$

13) $[-5^2 - (-5)^2] \cdot 3 + 100 = 10X - 3X - 2X$
$[-25 - 25] \cdot 3 + 100 = 5X$
$(-50) \cdot 3 + 100 = 5X$
$-150 + 100 = 5X, \quad -50 = 5X, \quad -10 = X$

14) $100(.01) - 100(.1) + 100(.5) = 100(2Y)$
$1 - 10 + 50 = 200Y$
$41 = 200Y, \quad Y = .205$ or $Y = 41/200$

15) $\frac{1}{(A)}\frac{2}{A} - \frac{1}{(A)}\frac{5}{A} = \frac{1}{(A)}\frac{X}{A}$

$2 - 5 = X, \quad -3 = X$

16) $\frac{3}{(6)}\frac{5}{2}X + \frac{2}{(6)}\frac{2}{3}X = \frac{1}{(6)}\frac{11}{6}$

$15X + 4X = 11, \quad X = 11/19$

17)
$$\begin{array}{r} .625 \\ 8\overline{)5.000} \\ 48 \\ \hline 20 \\ 16 \\ \hline 40 \\ 40 \\ \hline \end{array}$$

18) $X(X + Y + 2Q) = X^2 + XY + 2QX$

19) A

20) B

6D

1)

hours	pages
0	0
1	3
2	6
3	9

2) on the graph

3) 3, 0 P = 3H

4)

customer	eggs
0	3
1	5
2	7
3	9

5) on the graph

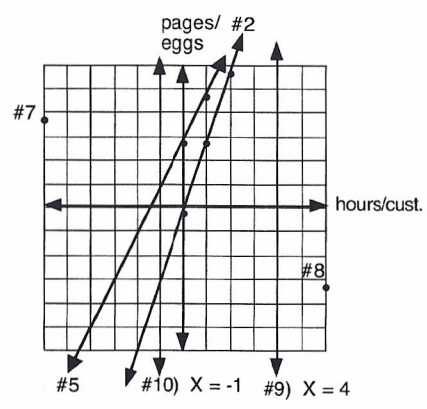
6) E = 2C + 3

7) quadrant 2

8) quadrant 4

9) on the graph

10) on the graph



11) $-6(Y - 5 + 9) + 7(2Y + 9) = -1$
$-6(Y + 4) + 14Y + 63 = -1$
$8Y + 39 = -1, \quad 8Y = -40, \quad Y = -5$

12) $3X + 3 - X - 8 + 5X + 12 = 4X - 12 - 6X + 10$
$7X + 7 = -2X - 2$
$9X = -9, \quad X = -1$

13) $-5R + |9^2 - 3^2| + 13 = 7R + 5R$
$-5R + |81 - 9| + 13 = 12R$
$-5R + 72 + 13 = 12R$
$-5R + 85 = 12R$
$85 = 17R, \quad 5 = R$

14) $[8 - (-2)]^2 = 10X$
$[8 + 2]^2 = 10X$
$10^2 = 10X, \quad 100 = 10X, \quad 10 = X$

15) $\frac{1}{(2A)}\frac{Y}{2A} - \frac{2}{(2A)}\frac{4}{A} = \frac{1}{(2A)}\frac{1}{2A}$

$Y - 8 = 1, \quad Y = 9$

16) $\frac{8}{(40)}\frac{13}{5}D - \frac{5}{(40)}\frac{3}{8}D = \frac{4}{(40)}\frac{47}{10}$

$104D - 15D = 188, \quad D = 2\ 10/89$

17)
$$\begin{array}{r} .9166 \text{ so } .91\overline{6} \\ 12\overline{)11.0000} \\ 108 \\ \hline 20 \\ 12 \\ \hline 80 \\ 72 \\ \hline 80 \end{array}$$

18) $X^2Y - 4X^2Y + BX^2Y = 0$
$X^2Y(1 - 4 + B) = X^2Y(0)$
$-3 + B = 0, \quad B = 3$

19) B

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

6E

1) 3, 1

2) on the graph

3) 1, 3 B = M + 3

4)

X	Y
0	2
1	3
2	4
3	5

5) on the graph

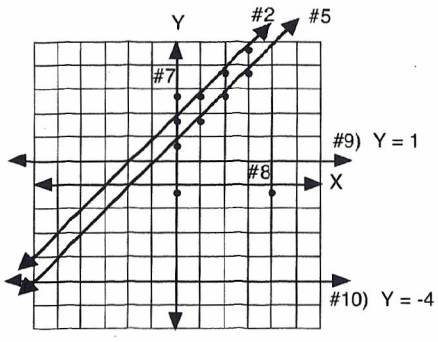
6) answers will vary

7) Y axis

8) X axis

9) on the graph

10) on the graph



11) $4AB - 7A = 15A$
$A(4B - 7) = A(15)$
$4B - 7 = 15, \quad 4B = 22, \quad B = 5\ 1/2$

12) $7(B + 6 - 2B - 4) = 3^2(-4B - 8 - 9 + 2B)$
$7(-B + 2) = 9(-2B - 17)$
$-7B + 14 = -18B - 153$
$11B + 14 = -153, \quad 11B = -167, \quad B = -15\ 2/11$

13) $-3(3G + 5G) + |3 - 12| = 18G + 5(-G - 4)$
$-3(8G) + |-9| = 18G - 5G - 20$
$-24G + 9 = 13G - 20$
$-37G = -29, \quad G = 29/37$

14) $100(-1.2) + 100(.07X) = 100(.3)$
$-120 + 7X = 30$
$7X = 150, \quad X = 21\ 3/7$ or 21.43 (rounded)

15) $\overset{4}{\cancel{(40)}}\frac{3}{\cancel{10}} - \overset{8}{\cancel{(40)}}\frac{8}{\cancel{5}} = \overset{5}{\cancel{(40)}}\frac{-5}{\cancel{8}}\ M$

$12 - 64 = -25M, \quad -52 = -25M, \quad M = 2\ 2/25$

16) $\overset{10}{\cancel{(90)}}\frac{5}{\cancel{9}}\ X - \overset{15}{\cancel{(90)}}\frac{17}{\cancel{6}} = \overset{9}{\cancel{(90)}}\frac{7}{\cancel{10}}$

$50X - 255 = 63,$
$50X = 318, \quad X = 6\ 9/25$

17)
$$\begin{array}{r} .2\,8\,5 \text{ rounds to } .29 \\ 7\overline{)2.0\,0\,0} \\ \underline{1\,4} \\ 6\,0 \\ \underline{5\,6} \\ 4\,0 \\ \underline{3\,5} \\ 5 \end{array}$$

18) $35\% = .35 = \frac{35}{100} = \frac{7}{20}$

19) $(-N)(-4) \div (2 \cdot 5)$

20) $3N - N + 2N + 7$

7A

If your student text has lesson practice 7A.1 - 7A.4, and 7B.1 and 7B.2, look in Appendix A at the back of your student book for the solutions.

1) intercept

2) up: over

3) negative

4) negative; $m = \frac{6}{-2} = -3$

5) positive; $m = \frac{8}{4} = 2$

6) positive; $m = \frac{7}{7} = 1$

7) negative; $m = \frac{6}{-3} = -2$

8) negative; $m = \frac{3}{-3} = -1$

9) positive; $m = \frac{3}{1} = 3$

7B

1) 4

2) 3

3) slope

4) negative; $m = \frac{2}{-8} = -\frac{1}{4}$

5) positive; $m = \frac{3}{5}$

6) positive; $m = \frac{4}{6} = \frac{2}{3}$

7) negative; $m = \frac{1}{-2} = -\frac{1}{2}$

8) negative; $m = \frac{2}{-6} = -\frac{1}{3}$

9) positive; $m = \frac{6}{8} = \frac{3}{4}$