

1) 3, 1

2) on the graph

3) 1, 3 $B = M + 3$

X	Y
0	2
1	3
2	4
3	5

5) on the graph

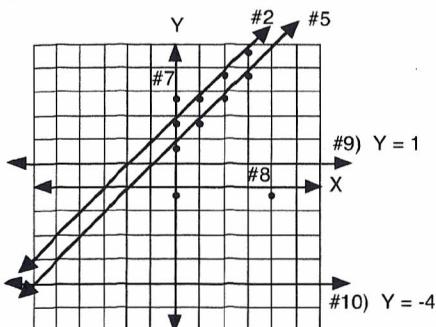
6) answers will vary

7) Y axis

8) X axis

9) on the graph

10) on the graph



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

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

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) $100(-1.2) + 100(0.07X) = 100(3)$
 $-120 + 7X = 30$
 $7X = 150, \quad X = 21 \frac{3}{7} \text{ or } 21.43 \text{ (rounded)}$

15) $\frac{4}{(40)} \frac{3}{10} - \frac{8}{(40)} \frac{8}{5} = \frac{5}{(40)} \frac{-5}{8} M$
 $12 - 64 = -25M, \quad -52 = -25M, \quad M = 2 \frac{2}{25}$

16) $\frac{10}{(90)} \frac{5}{8} X - \frac{15}{(90)} \frac{17}{6} = \frac{9}{(90)} \frac{7}{10} M$
 $50X - 255 = 63,$
 $50X = 318, \quad X = 6 \frac{9}{25}$

2.85 rounds to .29

17) $7 \overline{) 2.000}$
 $\underline{14}$
 60
 $\underline{56}$
 40
 $\underline{35}$
 5

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

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

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

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

1) 4

2) up: over

2) 3

3) negative

3) slope

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

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

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

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

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

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

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

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

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

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

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

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

7C

1) -3

2) down

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

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

5) $m = \frac{1}{-3} = -\frac{1}{3}; b = 1$

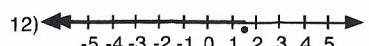
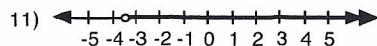
6) $y = -\frac{1}{3}x + 1$

7) $m = \frac{3}{4}; b = 0$

8) $y = \frac{3}{4}x$

9) $m = \frac{2}{4} = \frac{1}{2}; b = -1$

10) $y = \frac{1}{2}x - 1$



$$\begin{aligned} 13) & [(7 - 3) \times 4^2 - 9] \div 3^3 = \\ & [4 \times 16 - 9] \div 27 = \\ & (64 - 9) \div 27 = \\ & 55 \div 27 = 2 \frac{1}{27} \end{aligned}$$

$$\begin{aligned} 14) & |-4 - 2| + 8^2 - 7 \times 5 + 19 = \\ & |-6| + 16 - 35 + 19 = \\ & 6 + 16 - 35 + 19 = 6 \end{aligned}$$

$$\begin{aligned} 15) & 13^2 + 5 \div 10 = \\ & 169 + (5 \div 10) = \\ & 169 + (.5) = 169.5 \text{ or } 169 \frac{1}{2} \end{aligned}$$

$$\begin{aligned} 16) & 5(9 - 2) - 6(7) + 2^3 \cdot 3 = \\ & 5(7) - 6(7) + (8 \cdot 3) = \\ & 35 - 42 + 24 = 17 \end{aligned}$$

$$\begin{aligned} 17) & 2X - 5 = -X + 13 \\ & 2X + X = 13 + 5 \\ & 3X = 18 \quad X = 6 \end{aligned}$$

$$\begin{aligned} 18) & Y + 14 - 3Y = 0 \\ & Y - 3Y = -14 \\ & -2Y = -14 \quad Y = 7 \end{aligned}$$

$$\begin{aligned} 19) & -3 \frac{1}{2}B + 2 \frac{2}{3} = 5 \frac{1}{4} + 5 \frac{6}{6}B \\ & 12[-7 \frac{1}{2}B + 2 \frac{2}{3}] = 12[21 \frac{1}{4} + 5 \frac{6}{6}B] \\ & -42B + 8 = 63 + 10B \\ & 8 - 63 = 10B + 42B \\ & -55 = 52B \quad B = -1 \frac{3}{52} \end{aligned}$$

$$\begin{aligned} 20) & 2.7T + 1.09 = 5.3 - .6T \\ & 100[2.7T + 1.09] = 100[5.3 - .6T] \\ & 270T + 109 = 530 - 60T \\ & 270T + 60T = 530 - 109 \\ & 330T = 421 \quad T = \frac{421}{330} \text{ or } 1 \frac{91}{330} \end{aligned}$$

7D

1) 4

$$\begin{aligned} 13) & |-5 - 8| \times 4 - 7 + 12 = \\ & |-3| \times 4 - 7 + 12 = \\ & (-3 \times 4) - 7 + 12 = \\ & -12 - 7 + 12 = -7 \end{aligned}$$

2) 3

3) $m = \frac{3}{5}; b = 4$

4) $y = \frac{3}{5}x + 4$

5) $m = \frac{4}{-6} = -\frac{2}{3}; b = 0$

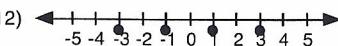
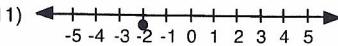
6) $y = -\frac{2}{3}x$

7) $m = \frac{3}{-6} = -\frac{1}{2}; b = 1$

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

9) $m = \frac{6}{3} = 2; b = 3$

10) $y = 2x + 3$



$$\begin{aligned} 13) & -15 - 8| \times 4 - 7 + 12 = \\ & (-49 \times 2) - 48 + 5 = \\ & -98 - 48 + 5 = -141 \end{aligned}$$

$$\begin{aligned} 15) & 144 \div 9 \times 3 - |-100 - 121| = \\ & (144 \div 9 \times 3) - |-21| = \\ & (16 \times 3) - 21 = 27 \end{aligned}$$

$$\begin{aligned} 16) & 8[17 - 3 \times 2] + 6^2 - (-5)^2 = \\ & 8[17 - 6] + 36 - 25 = \\ & 8(11) + 36 - 25 = \\ & 88 + 36 - 25 = 99 \end{aligned}$$

$$\begin{aligned} 17) & 4A + 11 = A - 4 \\ & 4A - A = -4 - 11 \\ & 3A = -15 \quad A = -5 \end{aligned}$$

$$\begin{aligned} 18) & -5F = -6F + 8 \\ & -5F + 6F = 8 \\ & F = 8 \end{aligned}$$

$$\begin{aligned} 19) & 2 \frac{2}{5} - 1 \frac{1}{6}D = -\frac{3}{4} \\ & 60[2 \frac{2}{5} - 1 \frac{1}{6}D] = 60[-\frac{3}{4}] \\ & 24 - 10D = -45 \\ & -10D = -45 - 24 \\ & -10D = -69 \quad D = \frac{69}{10} \text{ or } 6 \frac{9}{10} \end{aligned}$$

$$\begin{aligned} 20) & .03M - 1.2 = -.48M \\ & 100[.03M - 1.2] = 100[-.48M] \\ & 3M - 120 = -48M \\ & 3M + 48M = 120 \\ & 51M = 120 \quad M = \frac{120}{51} = \frac{40}{17} \\ & \text{or } M = 2 \frac{6}{17} \end{aligned}$$

1) up

2) slope

$$3) m = \frac{2}{-5} = -\frac{2}{5}; b = 2$$

$$4) Y = -\frac{2}{5}X + 2$$

$$5) m = \frac{2}{-8} = -\frac{1}{4}; b = 3$$

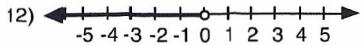
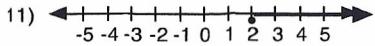
$$6) Y = -\frac{1}{4}X + 3$$

$$7) m = \frac{3}{3} = 1; b = -1$$

$$8) Y = X - 1$$

$$9) m = \frac{3}{-1} = -3; b = -2$$

$$10) Y = -3X - 2$$



$$13) 11 \cdot 3^2 - 14 \times 2 = \\ (11 \cdot 9) - (14 \cdot 2) = \\ (99) - (28) = 71$$

$$14) 2 \cdot 7 + 4^2 - 15 = \\ (2 \cdot 7) + 16 - 15 = \\ 14 + 16 - 15 = 15$$

$$15) (-6)^2 + (8 - 3^2) = \\ 36 + (8 - 9) = \\ 36 + (-1) = 35$$

$$16) 16 \div 8 \cdot 5 - 14 = \\ 2 \cdot 5 - 14 = \\ 10 - 14 = -4$$

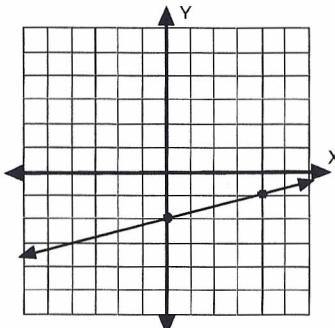
$$17) -2B + 5 - 3 + B = B - 4B + 1 - 10 \\ -2B + B + 5 - 3 = B - 4B + 1 - 10 \\ -B + 2 = -3B - 9 \\ -B + 3B = -9 - 2 \\ -2B = -11 \quad B = 11/2 \text{ or } 5 \frac{1}{2}$$

$$18) 5K + 6 - K - 9 = -2K + 6 + 3K - 3 \\ 5K - K + 6 - 9 = -2K + 3K + 6 - 3 \\ 4K - 3 = K + 3 \\ 4K - K = 3 + 3 \\ 3K = 6 \quad K = 2$$

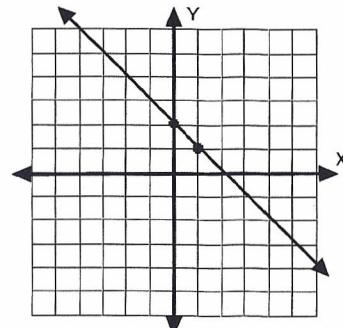
$$19) 4 \frac{3}{10} = -2/3 + 8/9 G \\ 90(43/10) = 90(-2/3 + 8/9 G) \\ 387 = -60 + 80G \\ 387 + 60 = 80G \quad 447/80 = G \\ G = 447/80 = 5 \frac{47}{80}$$

$$20) -5 - .6R = -9.8 \\ 10(-5 - .6R) = 10(-9.8) \\ -50 - 6R = -98 \\ -6R = -98 + 50 \\ -6R = -48 \quad R = 8$$

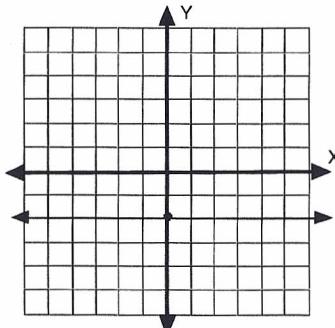
$$1) Y = 1/4 X - 2, \quad m = 1/4, \quad b = -2$$



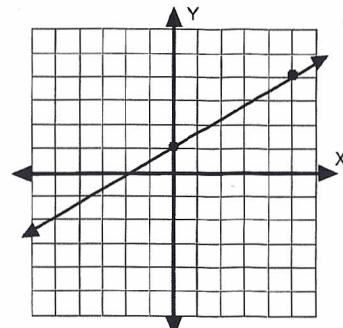
$$2) Y = -X + 2, \quad m = -1, \quad b = 2$$



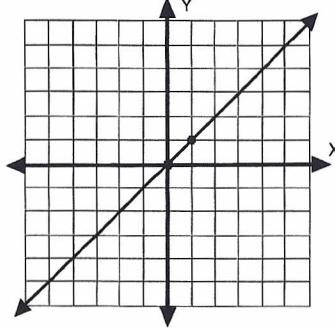
$$3) Y = -2; \quad Y = 0X - 2, \quad m = 0, \quad b = -2$$



$$4) Y = 3/5 X + 1, \quad m = 3/5, \quad b = 1$$



$$5) Y = X; \quad Y = X + 0, \quad m = 1, \quad b = 0$$



$$6) X = -3, \quad m = \text{undefined}, \quad b = \text{none or undefined}$$

