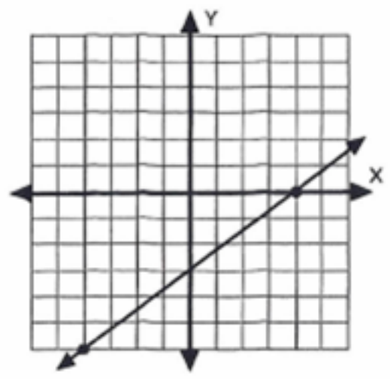
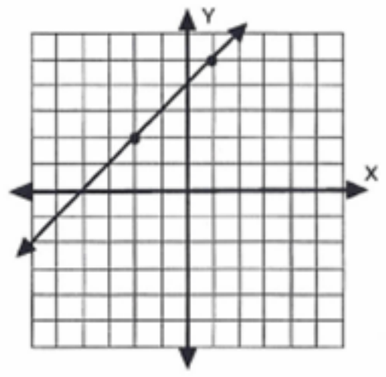
9B - 1

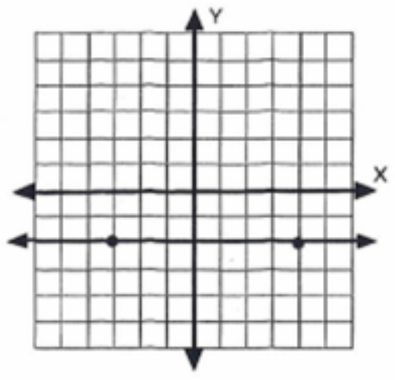
1) Y = 6/8 X - 3; Y = 3/4 X - 3



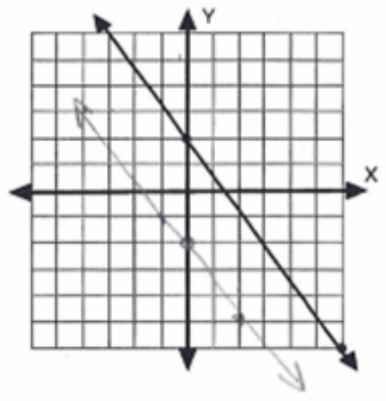
2) Y = 3/3 X + 4; Y = X + 4



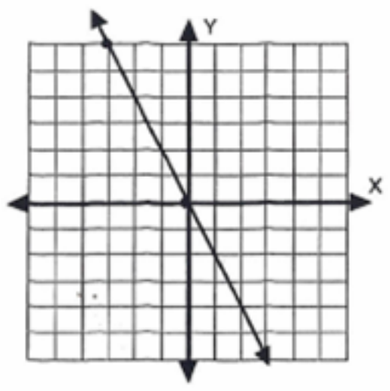
3) slope-intercept: Y = 0X - 2; Y = -2
standard form: Y = -2



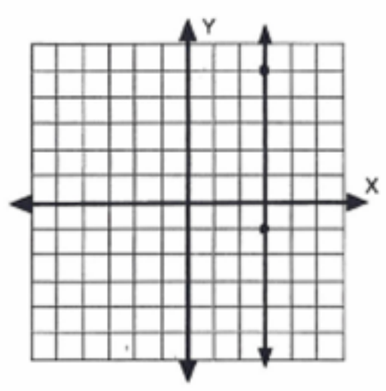
4) slope-intercept: Y = -8/6 X + 2; Y = -4/3 X + 2
standard form: 4/3 X + Y = 2; 4X + 3Y = 6



5) slope-intercept: Y = -6/3 X + 0; Y = -2X
standard form: 2X + Y = 0



6) slope-intercept: none because slope is undefined and there is no Y-intercept.
standard form: X = 0



9B - 2

If your student text has Lesson Practice 8A.1 - 8A.3, look in Appendix A at the back of your student book for the solutions. If your student text has only 34 lessons, your lesson practice 8B is the same as 9B-2 in these solutions. Add one to each lesson number from here on to find the correct solutions.

7) on the graph

8) slope = $-\frac{3}{2}$

9) y-intercept = 3

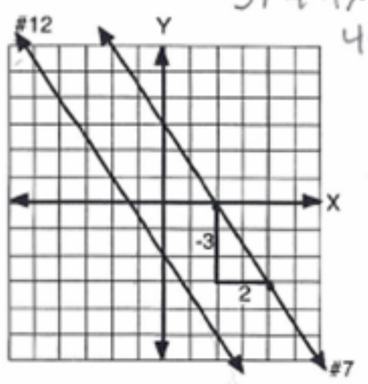
10) Y = -3/2 X + 3

11) C (Y = -3/2 X)

12) on the graph

13) Y = -3/2 X - 2

14) Y + 3/2 X = -2, 3X + 2Y = -4



15) on the graph

16) slope = $\frac{8}{2} = 4$

17) y-intercept = -1

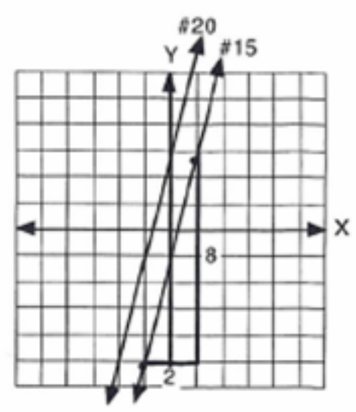
18) Y = 4X - 1

19) C (Y = 3/2 X + 1)

20) on the graph

21) Y = 4X + 3

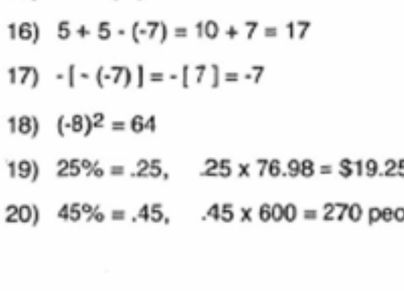
22) 4X - Y = -3



Solutions 9B

9C

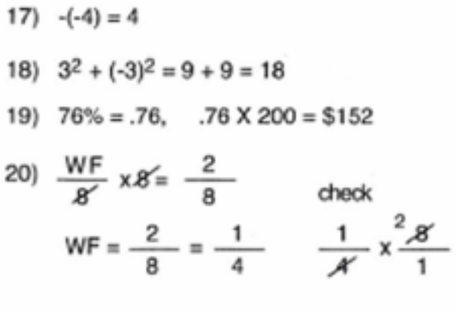
1) on the graph
2) slope = $\frac{3}{3} = 1$
3) y-intercept = 4
4) Y = X + 4, X - Y = -4
5) A (Y = -X - 1), C (Y = -X)
6) on the graph



7) 2
8) Y = -3X - 1, so slope is -3
9) Y - 1/3 X = 2, X - 3Y = -6
10) 2Y = -3X + 1, Y = - 3/2 X + 1/2
11) $(3 - 11)^2 \times 2 \div 16 - 7 = 3Y - 4Y + 9$
$(-8)^2 \times 2 \div 16 - 7 = -Y + 9$
$64 \times 2 \div 16 - 7 - 9 = -Y$
$128 \div 16 - 16 = -Y$, $8 - 16 = -Y$, $8 = Y$
12) $(3 - 5)^2 + |6 - 4| - X = 3X$
$(-2)^2 + |2| - X = 3X$
$4 + 2 = 4X$, $6 = 4X$, $1\ 1/2 = X$
13) $3(A - 4) - 5(2A - 6) = 21$
$3A - 12 - 10A + 30 = 21$
$-7A + 18 = 21$, $-7A = 3$, $A = -3/7$
14) $\overset{5}{\cancel{15}}\frac{4}{\cancel{3}} + \overset{3}{\cancel{15}}\frac{4}{\cancel{5}} A = \overset{3}{\cancel{15}}\frac{11}{\cancel{5}}$
$20 + 12A = 33$, $A = 1\ 1/12$
15) $-6^2 - (-6)^2 = -36 - 36 = -72$
16) $5 + 5 - (-7) = 10 + 7 = 17$
17) $-[-(-7)] = -[7] = -7$
18) $(-8)^2 = 64$
19) 25% = .25, .25 x 76.98 = $19.25
20) 45% = .45, .45 x 600 = 270 people

9D

1) on the graph
2) slope = $\frac{6}{6} = 1$
3) y-intercept = -4
4) Y = X - 4, X - Y = 4
5) C (Y = 1/4 X + 2)
6) on the graph



7) Y = 1/4 X - 1
8) Y = -2X + 3, slope = -2
9) 2X - Y = -5
10) 4Y = -2X + 8, Y = -1/2 X + 2
11) $|-1 - 1 - 1 - 1|^2 = (-1)^2 + B(-1) \div 1$
$16 = 1 - B \div 1$, $15 = -B$, $-15 = B$
12) $(3 + 5)^2 + |8 - 11| + Z = 4(Z - 2)$
$8^2 + |-3| + Z = 4Z - 8$
$64 + 3 + Z = 4Z - 8$, $75 = 3Z$, $25 = Z$
13) $5(B - 6) + 4(2B + 7) = 102$
$5B - 30 + 8B + 28 = 102$
$13B - 2 = 102$, $13B = 104$, $B = 8$
14) $55Q - 30Q = 125$
$25Q = 125$, $Q = 5$
15) $-\{-[-(-8)]\} = -\{-[8]\} = 8$
16) $-9^2 = -81$
17) $-(-4) = 4$
18) $3^2 + (-3)^2 = 9 + 9 = 18$
19) 76% = .76, .76 X 200 = $152
20) $\frac{WF}{\cancel{8}} \times \cancel{8} = \frac{2}{8}$ check
$WF = \frac{2}{8} = \frac{1}{4}$ $\frac{1}{\cancel{4}} \times \overset{2}{\cancel{8}}{1} = 2$