Secondary Math 1   Name_____

Writing Linear Functions   Date_____ Period_____

Write an equation that fits the given criteria.
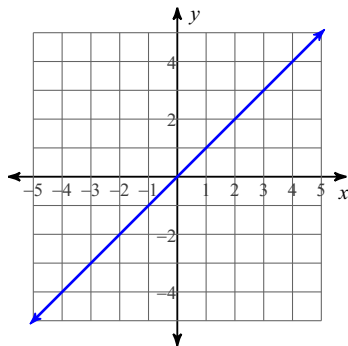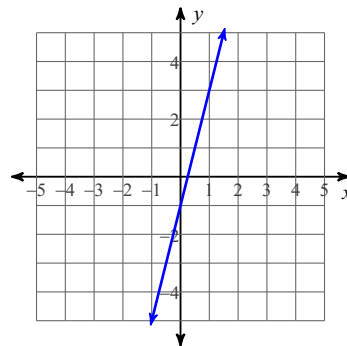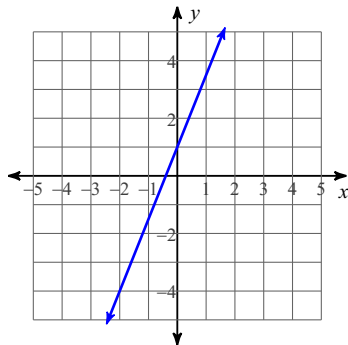
1)
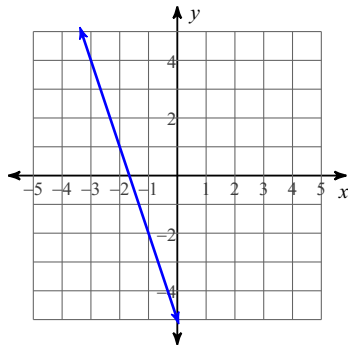
2)
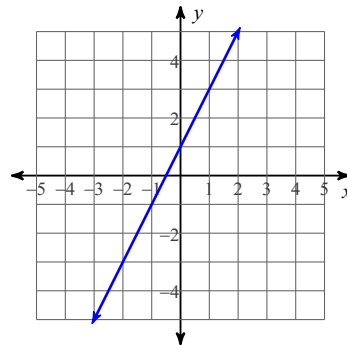
3)

4)

5)

6) Slope $= \dfrac{3}{4}$,   y-intercept $= -2$

7) Slope $= \dfrac{7}{5}$,   y-intercept $= 3$

8) Slope $= 2$,   y-intercept $= 4$

9) Slope $= -\dfrac{1}{2}$,   y-intercept $= 1$

10) Slope $= \dfrac{1}{2}$,   y-intercept $= -2$

11) through: $(-1, 3)$, slope $= 0$

12) through: $(-5, -4)$, slope $=$ undefined

13) through: $(1, -2)$, slope $= -\dfrac{7}{5}$

14) through: $(-3, 1)$, slope $= \dfrac{1}{2}$

15) through: $(-1, 2)$, slope $= -1$

16) through: $(4, 1)$ and $(1, 2)$

17) through: $(5, -4)$ and $(5, 1)$

18) through: $(4, 4)$ and $(-1, 3)$

19) through: $(-2, -1)$ and $(3, -3)$

20) through: $(2, 3)$ and $(-1, -2)$

Answers to Writing Linear Functions

1) $y = -3x - 5$

2) $y = 2x + 1$

3) $y = x$

4) $y = 4x - 1$

5) $y = \dfrac{5}{2}x + 1$

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

7) $y = \dfrac{7}{5}x + 3$

8) $y = 2x + 4$

9) $y = -\dfrac{1}{2}x + 1$

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

11) $y = 3$

12) $x = -5$

13) $y = -\dfrac{7}{5}x - \dfrac{3}{5}$

14) $y = \dfrac{1}{2}x + \dfrac{5}{2}$

15) $y = -x + 1$

16) $y = -\dfrac{1}{3}x + \dfrac{7}{3}$

17) $x = 5$

18) $y = \dfrac{1}{5}x + \dfrac{16}{5}$

19) $y = -\dfrac{2}{5}x - \dfrac{9}{5}$

20) $y = \dfrac{5}{3}x - \dfrac{1}{3}$