Algebra 1 Worksheet 2.2 Name_____

Standard Form and Parallel & Perpendicular

Period_____ Group____

Write the standard form of the equation of each line.

1) $y = \frac{1}{6}x$

2) $y = -4x + 2$

3) $x = -4$

4) $x = 3$

Write the slope-intercept form of the equation of each line.

5) $5x - 4y = -20$

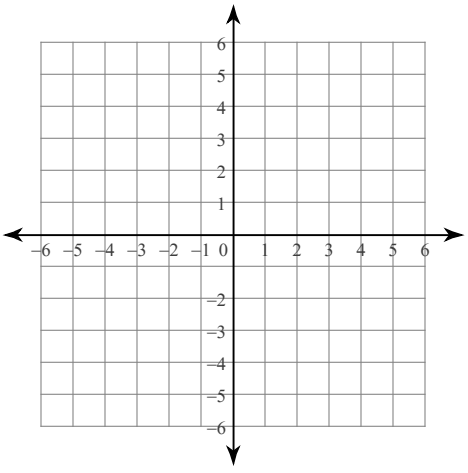
6) $5x + 3y = 6$

7) $10x + 7y = -21$

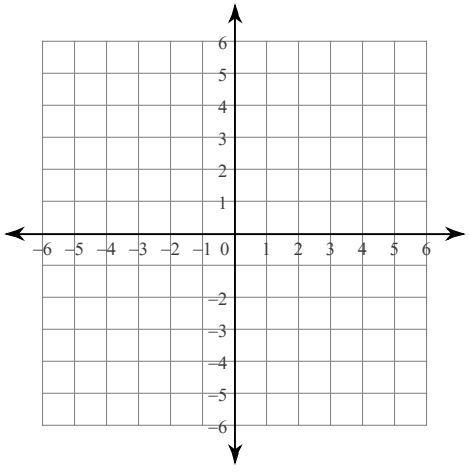
8) $x - 4y = -32$

Sketch the graph of each line.

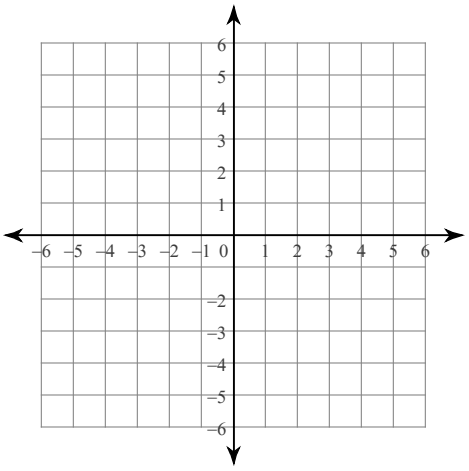
9) $3x + y = 0$



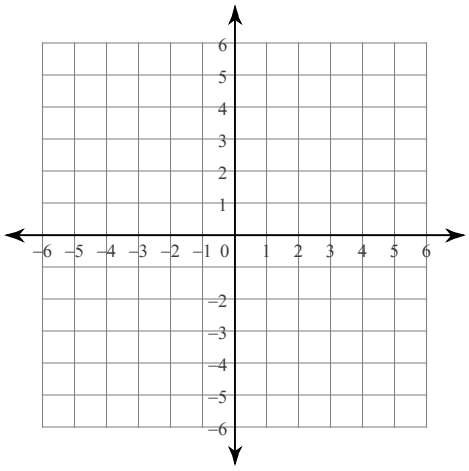
10) $2x - y = -1$



11) $8x + 3y = -12$



12) $x + 5y = -15$



Write the slope-intercept form of the equation of the line described.

13) through: $(2, 4)$, parallel to $y = \frac{5}{2}x - 4$

14) through: $(4, 0)$, parallel to $y = -4$

15) through: $(-4, -3)$, parallel to $y = \frac{3}{4}x - 4$

16) through: $(-4, 3)$, parallel to $x = 0$

17) through: $(3, -1)$, perp. to $y = \frac{3}{4}x + 3$

18) through: $(-2, -4)$, perp. to $y = -\frac{1}{3}x - 4$

19) through: $(1, -4)$, perp. to $y = \frac{1}{5}x + 2$

20) through: $(2, -2)$, perp. to $y = \frac{1}{3}x - 4$

Answers to Standard Form and Parallel & Perpendicular (ID: 1)

1) $x - 6y = 0$

2) $4x + y = 2$

3) $x = -4$

4) $x = 3$

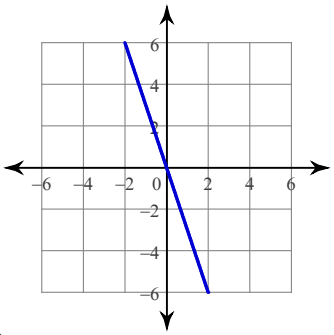
5) $y = \frac{5}{4}x + 5$

6) $y = -\frac{5}{3}x + 2$

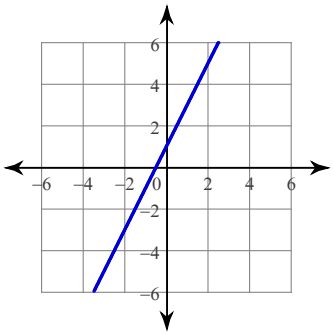
7) $y = -\frac{10}{7}x - 3$

8) $y = \frac{1}{4}x + 8$

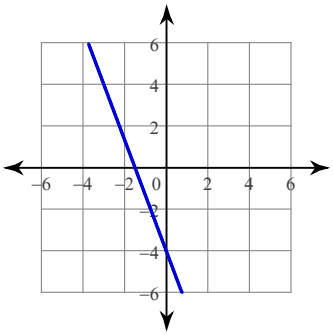
9)



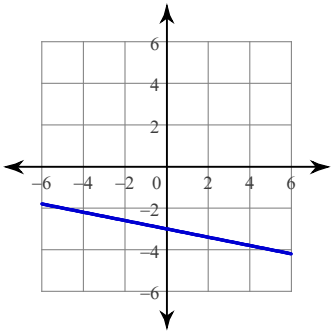
10)



11)



12)



13) $y = \frac{5}{2}x - 1$

14) $y = 0$

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

16) $x = -4$

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

18) $y = 3x + 2$

19) $y = -5x + 1$

20) $y = -3x + 4$