

## Homework #3 - Standard Form Homework

Due Date \_\_\_\_\_

5T \_\_\_\_\_

**Write the standard form of the equation of each line.**

1)  $y = -2x + 6$

2)  $y = -\frac{7}{4}x - 3$

3)  $y = \frac{2}{5}x + 4$

4)  $y = -4x + 6$

5)  $y = -\frac{5}{3}x + 1$

6)  $y = -x + 4$

7)  $0 = -6x - 5 - 5y$

8)  $-2 - 2y = 4x$

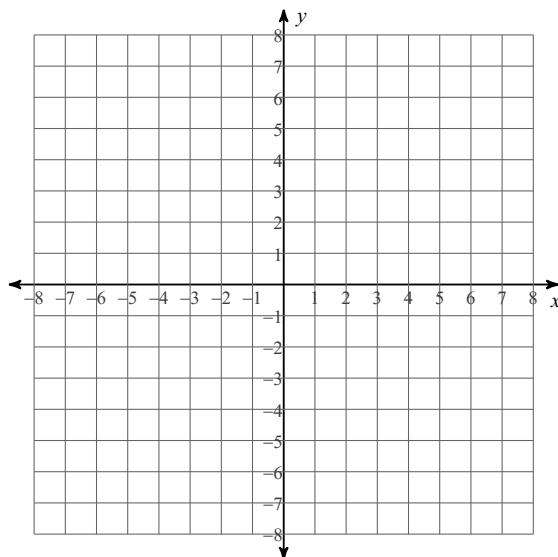
9)  $x = 2 - y$

10)  $-1 = \frac{8}{15}y + \frac{1}{3}x$

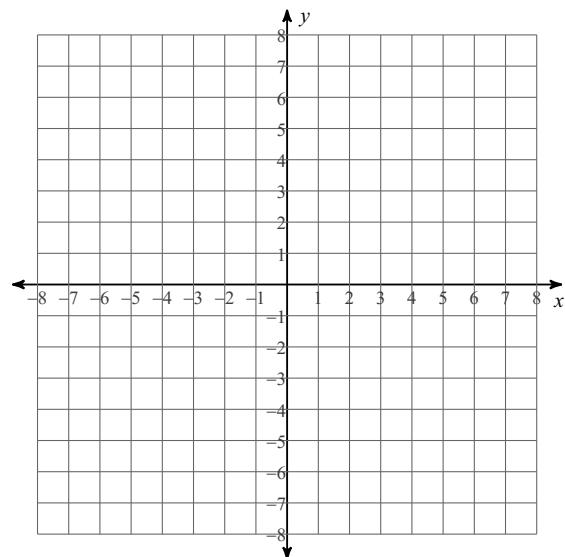
**Calculate the x-intercept and the y-intercept, plot them, then draw the line.**

11)  $3x - 7y + 21 = 0$

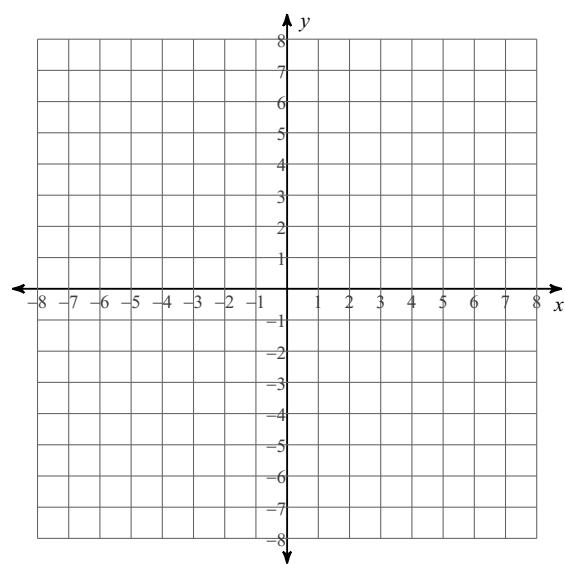
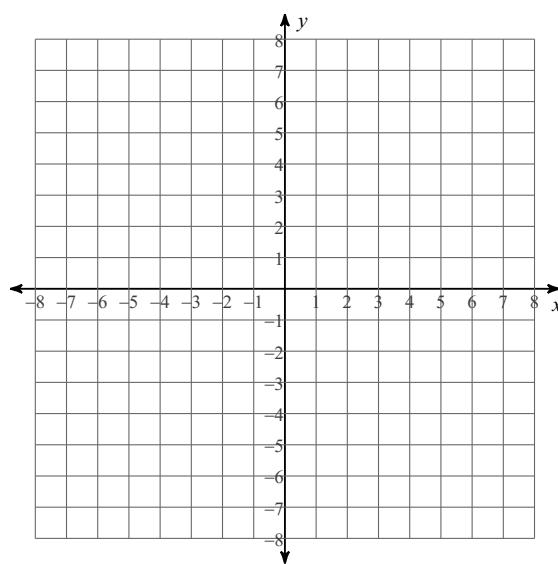
12)  $x + 3y - 6 = 0$



13)  $4x - 2y + 13 = 0$



14)  $6x + 5y + 30 = 0$



**Write the Standard Form given the following information. Use the Point Slope Form.**

15) through:  $(4, -5)$ , slope =  $-2$

16) through:  $(3, -4)$ , slope =  $-\frac{8}{3}$

17) through:  $(-4, -4)$ , slope =  $\frac{3}{2}$

18) through:  $(-5, -4)$ , slope =  $3$

19) through:  $(-4, 5)$  and  $(-5, -3)$

20) through:  $(-5, 3)$  and  $(3, -2)$

21) through:  $(-2, -3)$  and  $(-5, -4)$

22) through:  $(-1, -3)$  and  $(0, -3)$