Math 9D - Analytic Geometry

Name_____

Homework #3 - Standard Form Homework

Due Date_____ 5T____

Write the standard form of the equation of each line.

1) $y = -2x + 6$

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

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

4) $y = -4x + 6$

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

6) $y = -x + 4$

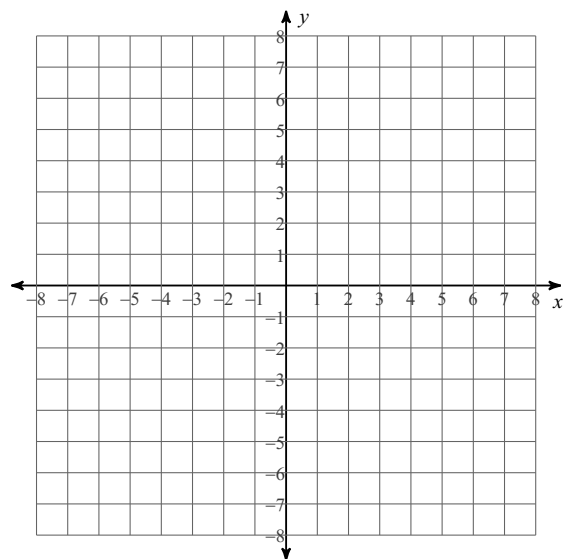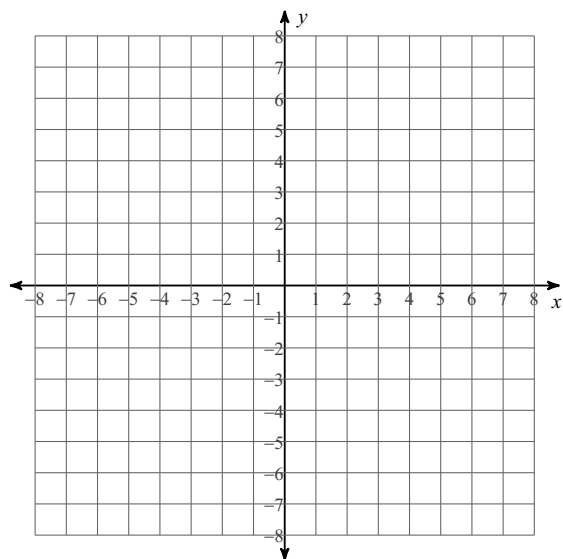7) $0 = -6x - 5 - 5y$

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

9) $x = 2 - y$

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

Calculate the x-intercept and the y-intercept, plot them, then draw the line.
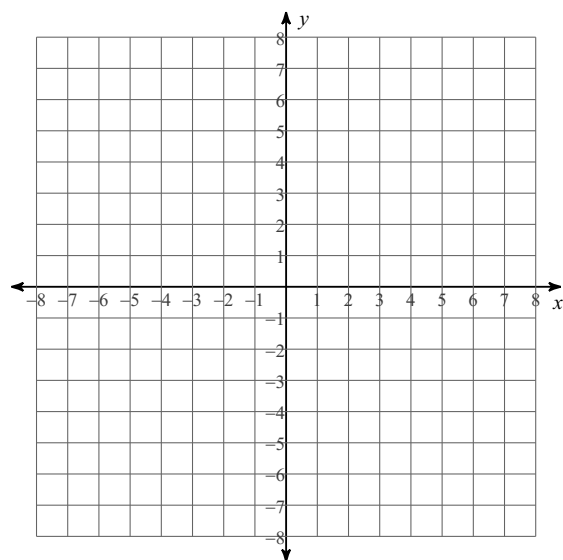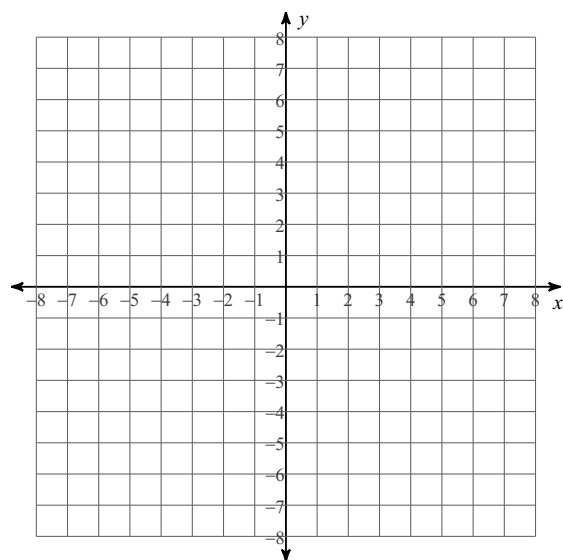
11) $3x - 7y + 21 = 0$

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 $= -\dfrac{8}{3}$

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

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 $(0, -3)$