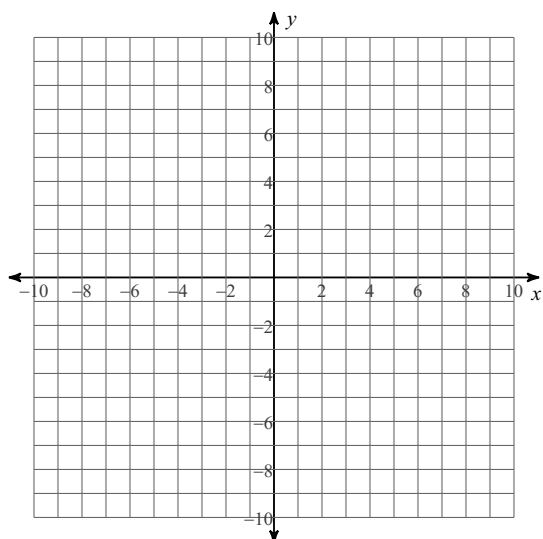Math 9 - Analytic Geometry

Name_____
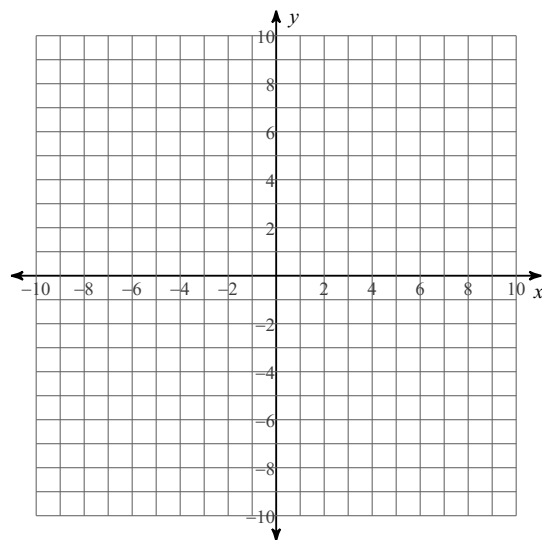
Homework #4 - Intersecting Lines

Due Date_____ 5A____

Graph both lines using the y-intercept and slope. State the Point of Intersection.
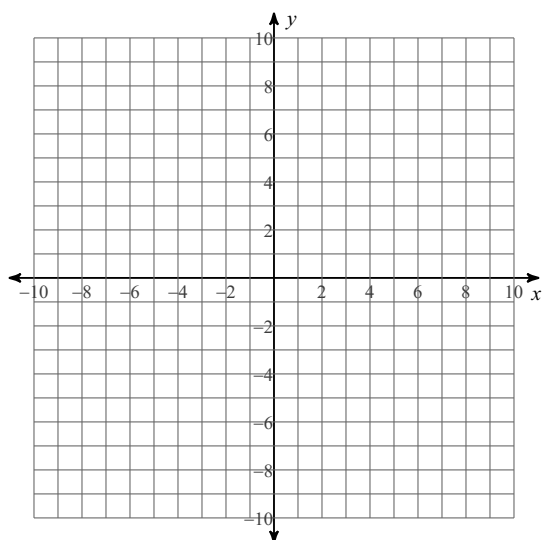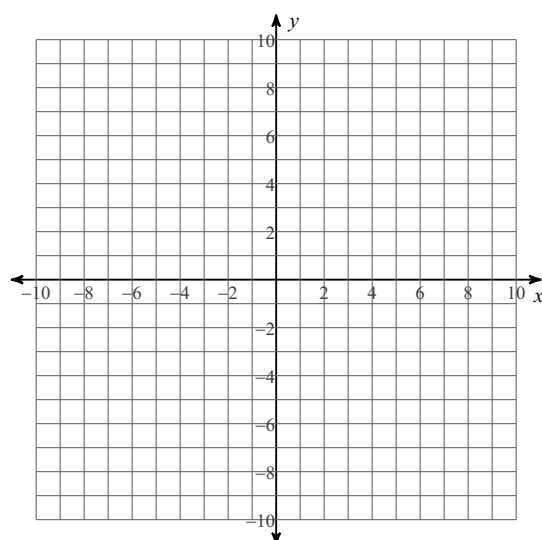
1) $y = 4x - 6$
   $y = -x + 9$

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

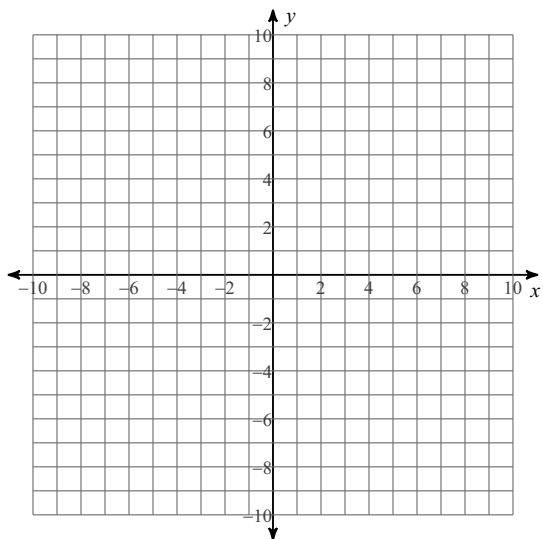3) $y = \dfrac{4}{3}x - 6$
   $y = \dfrac{1}{6}x + 1$

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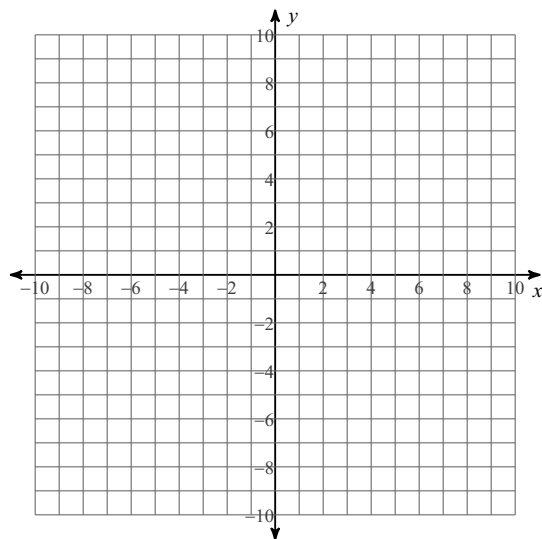 $y = -\dfrac{3}{2}x + 2$

Graph both lines by finding the x-intercept and y-intercept. Do the work below the graph.
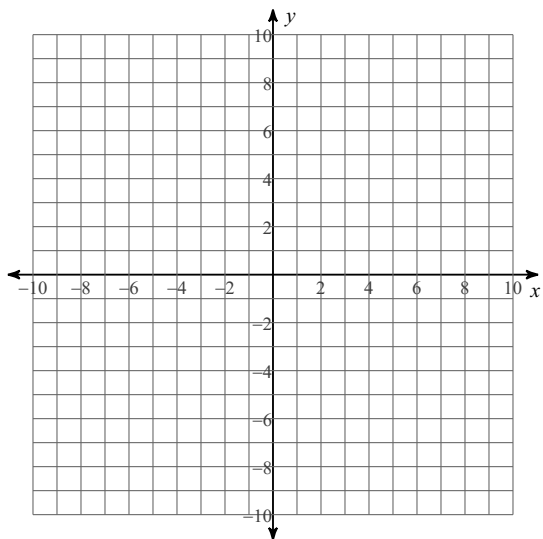
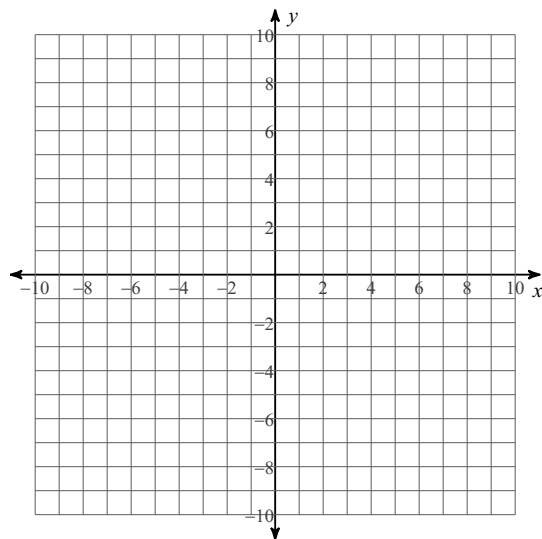5) $x + 2y = 8$
   $7x - 2y = 8$

6) $5x + 3y = 27$
   $2x - y = 2$
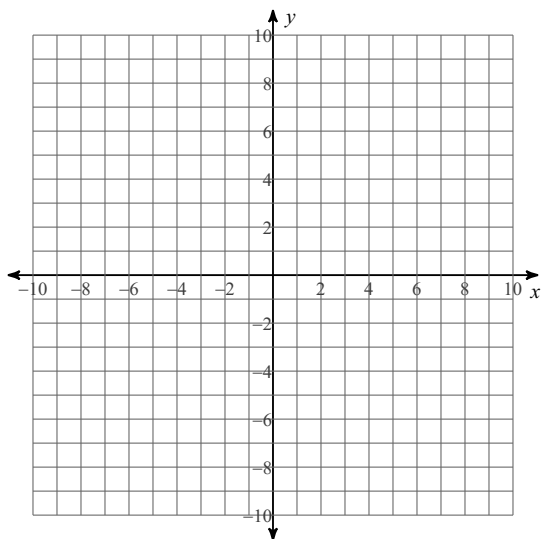
7) $x - 2y = -8$
   $x + y = -5$

8) $6x + 7y = -21$
   $x = 7$

Graph each line by converting to y=mx+b or Standard Form. State the PoI.

9) $-4y + x = 8$

$-\dfrac{2}{3}y = -2 - x$

10) $y - x = -2$

$2x - 9y = -45$