Complete the following **IN CLASS.** It is due at the end of the hour.

Practice 3-5

Lines in the Coordinate Plane

Write an equation of the line with given slope that contains the point in slope intercept form.

1. $F(3, -6)$, slope $\frac{1}{3}$

2. $Q(5, 2)$, slope -2

3. $A(3, 3)$, slope 7

4. $B(-4, -1)$, slope $-\frac{1}{2}$

Rewrite each equation in slope intercept form.

9. $2y = 8x - 2$

10. $2y = \frac{1}{2}x - 10$

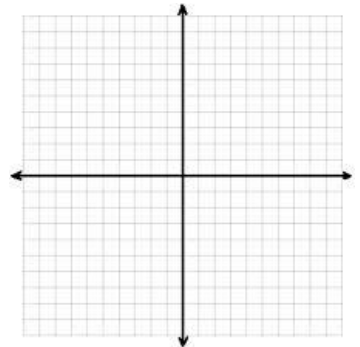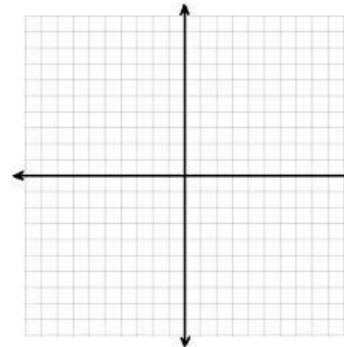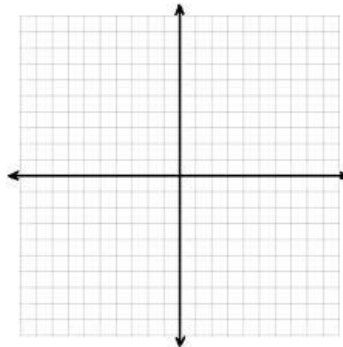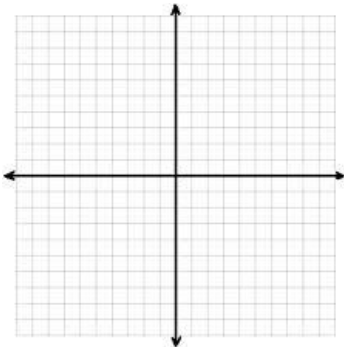11. $3x + 9y = 18$

12. $-x + y = -1$

Graph each line. State the slope and y-intercept, if possible.

17. $y = 5x + 4$

18. $y = \frac{1}{2}x - 3$

19. $x = -2$

20. $y = -2x$

Slope = _____   Slope = _____   Slope = _____   Slope = _____
y-intercept:_____   y-intercept:_____   y-intercept:_____   y-intercept:_____

Write an equation of the line containing the given points in slope intercept form and point slope form.

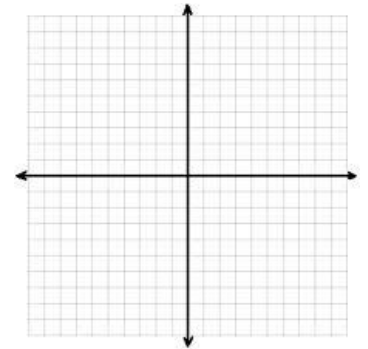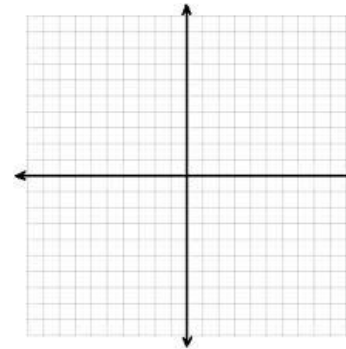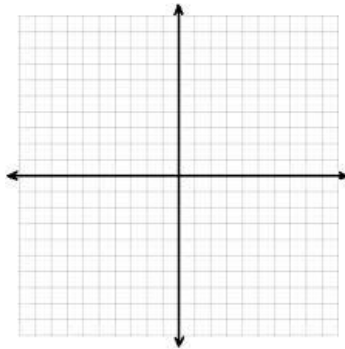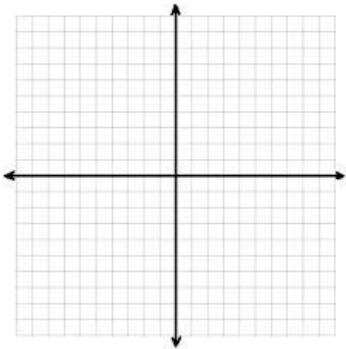**25.** $A(2, 7), B(3, 4)$

26. $P(-1, 3), Q(0, 4)$

Write the equations for (a) the horizontal line and (b) the vertical line that contains the given point. State the slope of each line and sketch its graph.

33. $Z(2, -11)$ **34.** $D(0, 2)$ **35.** $R(-4, -4)$ **36.** $F(-1, 8)$

Graph each line using intercepts.

37. $3x - y = 12$ **38.** $2x + 4y = -4$ **39.** $\frac{1}{2}x + \frac{1}{2}y = 3$ **40.** $12x - 3y = -6$