## Section 8.3 Focus Exercises

1. Given the point and a slope of a line, find (and label) two other points on the line and draw it. (Use each graph for two lines.) Also, Where do the two lines cross each other?



- 2. Identify the x-intercept, the y-intercept and the slope of each line. Simplify the slope, if possible.
- Line A: y-intercept ( • a) x-intercept ( • A В slope, m =y-intercept ( 3 Line B: b) x-intercept ( x 6 3 slope, m =3 y-intercept ( Line C: c) x-intercept ( slope, m =

x +

C

**3.** Given the x-intercept and y-intercept of a line, plot the points, draw the line and find the slope. Simplify the slope, if possible.



- **4.** Identify the slope and the y-intercept of the line. Then use them to graph the line. Identify the point where they cross.
- a)  $y = \frac{-1}{3}x + 4$  b) y = 3x 6 c)  $y = \frac{1}{2}x + 2$  d) y = -2x 3m = m = m = m = y-int: y-int: y-int: y-int:

Use this graph for (a) and (b)

Use this graph for (c) and (d)



5. Given the graph of the line, identify its slope and y-intercept, and use them to write the equation of the line.







y-int:











Equation of line:

Equation of line:

m =





Equation of line:

## m =