## 7.1 and 7.2 Extension Activity

- 1. Write the equation in slope intercept form of a line with the same slope as the line x + 4y + 8 = 0 and the same y-intercept as the line 2x 3y + 12 = 0
- 2. The equations x + 4y = n and 5x 2y = 10 have the same y-intercept. What is the value of n?
- 3. A graph of 6x ny = 8 and 2x + 3y = 12 have the same slope. What is the value of n?
- 4. The equation of a line is x + 3y 24 = 0. Write the coordinates of a point on the line for each of the following conditions.
  - a) The x-coordinate is equal to the y-coordinate.
  - b) The x-coordinate is three times as great as the y-coordinate.
  - c) The y-coordinate is four times greater then the x-coordinate.