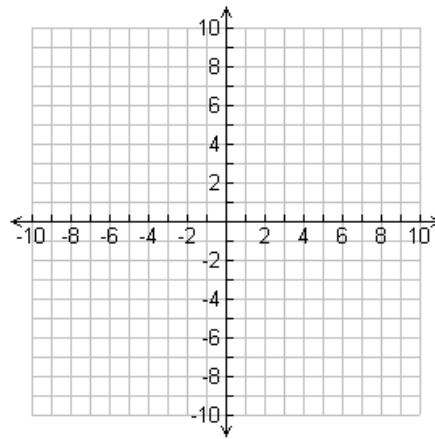# Comparing all of the Forms

Graphing Practice

1. $y = -2x + 3$

    a. What form is the equation in?

    b. What is the slope?

    c. What is a point we know?
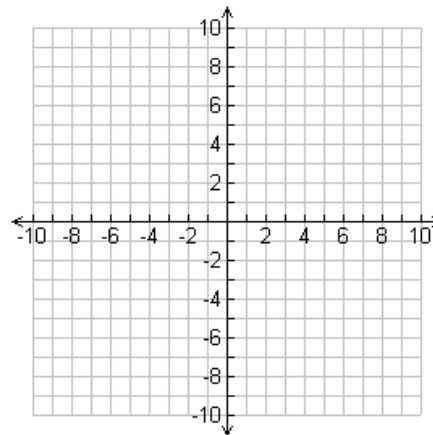
2. $4x - 6y = 36$

    a. What form is the equation in?

    b. What is the x-intercept?

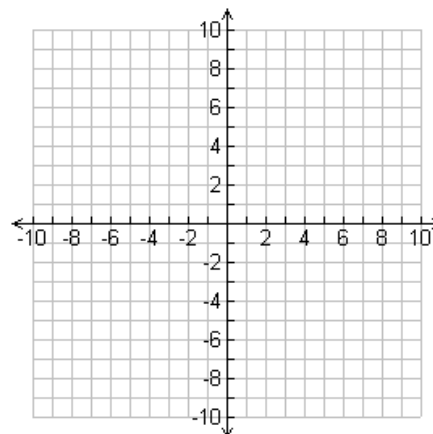   c. What is the y-intercept?

3. $y - 5 = \frac{1}{2}(x + 1)$

    a. What form is the equation in?

    b. What is the slope?

    c. What is a point we know?

Modeling with Linear Functions

1. Jamie owes her uncle $200. Each week she pays him $5.

      a. Write an equation relating the amount of weeks to the amount Jamie still owes her uncle.

      b. What form is your equation in?

      c. Find the x and y intercepts of the graph and explain what they mean in the context of the situation.

2. You have $100 to spend on a barbeque where you want to serve chicken and steak. Chicken costs $1.29 per pound and steak costs $3.49 per pound.

      a. Write an equation that relates the amount of chicken and the amount of steak you can buy.

      b. What form is your equation in?

      c. Find the x and y intercepts of the graph and explain what they mean in the context of the situation.

3. Daisy purchases a gym membership. She pays a signup fee and a monthly fee of $11. After 4 months, she has paid a total of $59.

      a. Write an equation that relates the amount of months she is a member and how much she pays for her being a gym member.

      b. What form is your equation in?

      c. How much will Daisy pay after 8 months?