Determining Intercepts and Zeros of Linear Functions

Name:

Date:

Vocabulary Review:
In your own words, define each of the following vocabulary terms.

- Linear Function

- Intercept

- Zeros

- Slope-Intercept Form

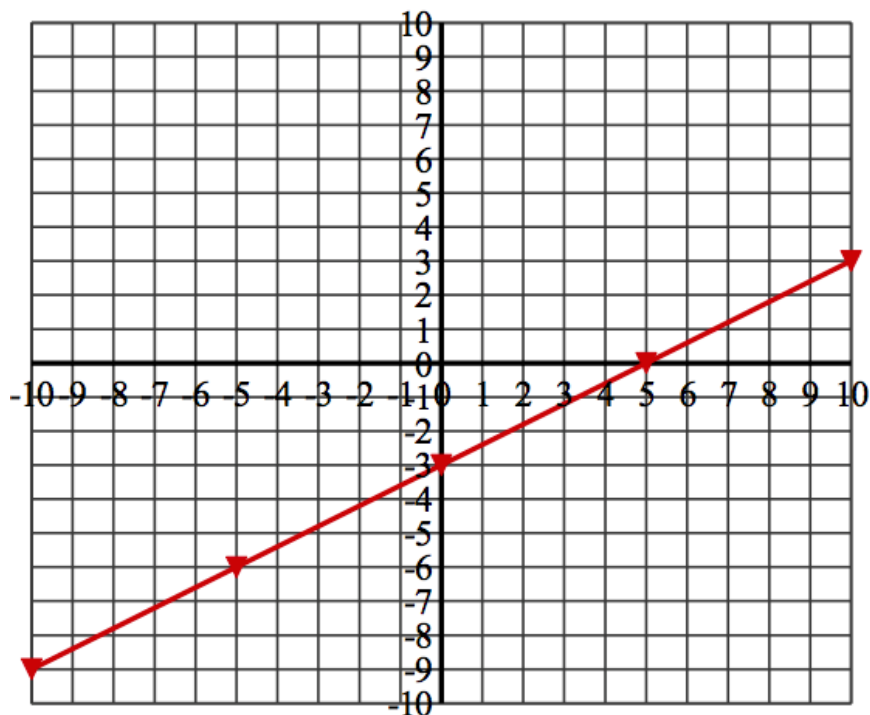- *x*-Intercept

- *y*-Intercept

Apply New Learning:

1. What is the relationship between the intercepts and the zeros of a function?

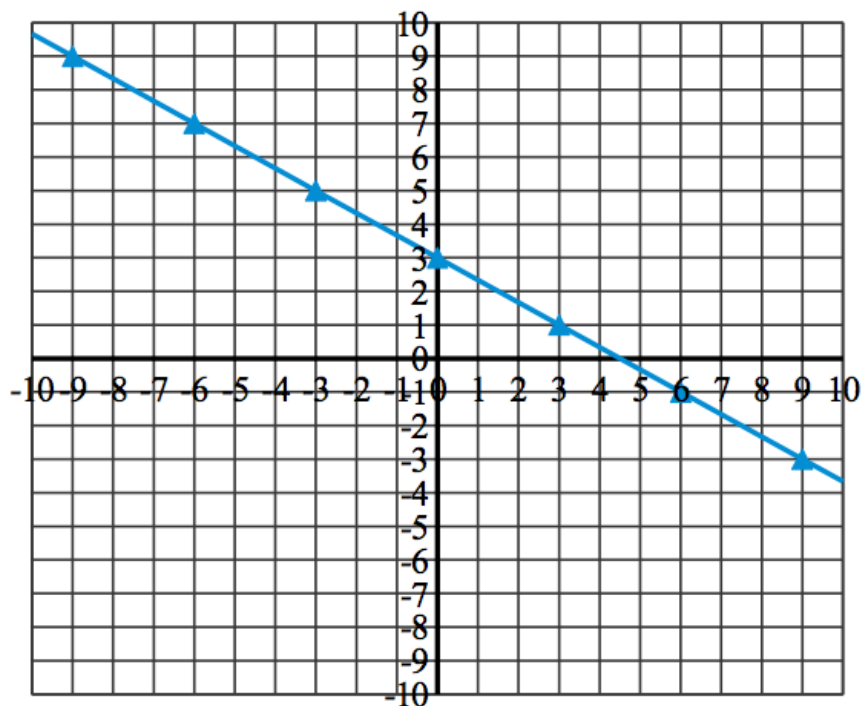2. What strategies can be used to solve for *x*- and *y*-intercepts?

3. Find the *x*-intercept and the *y*-intercept for the following graph.
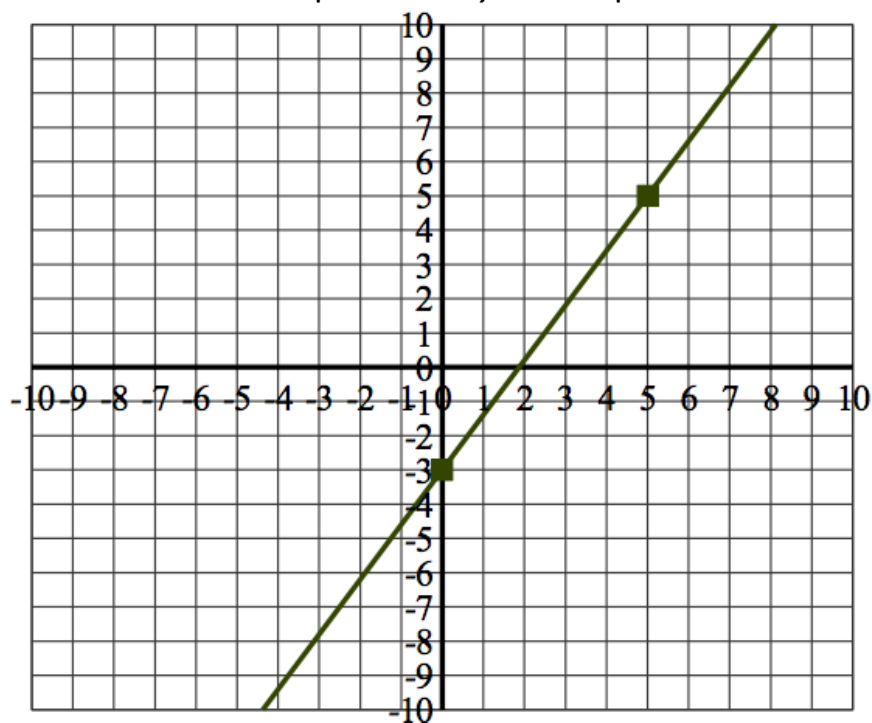
4. Find the *x*-intercept and the *y*-intercept for the following graph.

5. What method can be used to find the zero of a linear function?

6. What is the zero of the function 2*y* = -3*x* + 6?

7. Meagan works in a clothing store. She makes $10 per hour, plus $3 for each item she sells. The equation, *y* = 3*x* + 10 describes the amount Megan makes (*y*) in an hour if she sells *x* items. Find the *x*-intercept, *y*-intercept, and the zero of the function.