Some Questions from Khan Academy

## No Calculator

- 1. y = (x + 2)(x + 8) is graphed in the xy-plane, which of the following characteristics of the graph is displayed as a constant in the equation?
  - A) *x*-intercept(s)
  - B) y-intercept
  - C) *x*-coordinate of the vertex
  - D) Minimum *y*-value
- 2. If  $y=-(x 1)^2 + 3$  is graphed in the xy-plane, which of the following characteristics of the graph is displayed as a constant or coefficient in the equation?
  - A) y-intercept
  - B) *x*-intercept(s)
  - C) Minimum *y*-value
  - D) *x*-coordinate of the line of symmetry
- 3. If y = (x 1)(x + 5) is graphed in the xy-plane, which of the following characteristics of the graph is displayed as a constant in the equation?
  - A) *x*-coordinate of the vertex
  - B) *x*-intercept(s)
  - C) Maximum *y*-value
  - D) Y-intercept

- 4. If  $y = 2x^2 5x + 7$  is graphed in the *xy*-plane, which of the following characteristics of the graph is displayed as a constant or coefficient in the equation?
  - A) *x*-intercept(s)
  - B) y-intercept
  - C) *x*-coordinate of the vertex
  - D) *y*-coordinate of the vertex
- 5. If  $y = -\frac{1}{2}x^2 9$  is graphed in the *xy*-plane, which of the following characteristics of

the graph are displayed as a constant or coefficient in the equation?

- I. x-intercept(s)
- II. y-intercept
- **III.** y-coordinate of the vertex
  - A) II only
  - B) III only
  - C) I and II only
  - D) II and III only