Learning Target #2: Graphing Quadratic Equations & Interpreting Their Different Forms

Which of these functions has a y-intercept of (0, 7)?

(a) $f(x) = x^2 + 2x + 7$

(b) $f(x) = 3x^2 - 7$

(c) $f(x) = -(x + 5)^2 + 7$

(d) $f(x) = 7(x - 1)(x + 5)$

What could be the equation of a parabola that opens down and has a vertex of (-3, -8)

(a) $y = -8(x + 3)^2 + 8$

(b) $y = 7(x + 3)^2 - 8$

(c) $y = -(x - 3)^2 - 8$

(d) $y = -5(x + 3)^2 - 8$

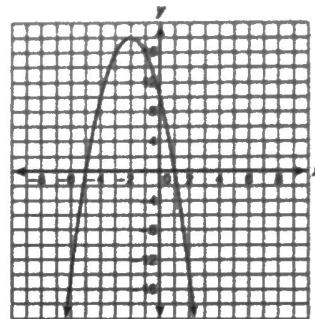What are the x-intercepts of the function $f(x) = (x + 1)(x +3)$?

(a) (1, 0) and (3, 0)

(b) (-1, 0) and (-3, 0)

(c) (1, 0) and (-3, 0)

(d) (-1, 0) and (3, 0)

Learning Target #2: Graphs and Different Forms of Quadratic Functions

Which of the equations below could represents the graph at the right?

(a) $y = (x - 5)(x + 1)$

(b) $y = -(x - 5)(x + 1)$

(c) $y = (x + 5)(x - 1)$

(d) $y = -(x + 5)(x - 1)$

Which graph represents the equation $y = (x - 3)^2 - 2$?

(a)

(b)

(c)

(d)