

## Answer on Question #56095 - Math – Algebra

**Task 6.** Which of the following represents this function written in intercept form? There can be multiple right answers. Check all that apply.

$$y = -x^2 - x + 6$$

$$y = -(x - 2)(x + 3)$$

$$y = -(x + 2)(x - 6)$$

$$y = -(x + 2)(x + 6)$$

$$y = (-x + 3)(x - 4)$$

### Solution

Using intercept form for parabola:  $y = a(x - p)(x - q)$

We get answer.

**Answer:**  $y = -(x - 2)(x + 3)$ ;  $y = -(x + 2)(x - 6)$ ;  $y = -(x + 2)(x + 6)$

**Task 7.** What are the coordinates of the vertex of the function below? Write the answer in the form  $(x, y)$

$$y + 9 = -6(x - 2)^2$$

### Solution

$$x_{vertex} = 2, y_{vertex} = -9$$

**Answer:**  $(2, -9)$ .