

Task 1:

$$y = x^2 - 4x - 12$$

- 1 Factor.
- 2 Where are the **zeros**?
- 3 What is the coordinate of the **vertex**?
- 4 **Graph** your parabola, **labeling** zeros and vertex.

Task 2:

$$y = (x - 3)(x - 1)$$

- 1 Where are the **zeros**?
- 2 What is the coordinate of the **vertex**?
- 3 **Graph** your parabola, **labeling** zeros and vertex.
- 4 Convert your equation to **Standard Form**.

Task 3:

$$y = -3x^2 + 18x$$

- 1 Factor.
- 2 Where are the **zeros**?
- 3 What is the coordinate of the **vertex**?
- 4 **Graph** your parabola, **labeling** zeros and vertex.

Task 4:

$$y = -(x + 10)(x + 2)$$

- 1 Where are the **zeros**?
- 2 What is the coordinate of the **vertex**?
- 3 **Graph** your parabola, **labeling** zeros and vertex.
- 4 Convert your equation to **Standard Form**.

Task 5:

$$y = -2x^2 + 16x + 18$$

- 1 Factor.
- 2 Where are the **zeros**?
- 3 What is the coordinate of the **vertex**?
- 4 **Graph** your parabola, **labeling** zeros and vertex.

Task 6:

$$y = -6x^2 + 15x$$

- 1 Factor.
- 2 Where are the **zeros**?
- 3 What is the coordinate of the **vertex**?
- 4 **Graph** your parabola, **labeling** zeros and vertex.

Task 7:

$$y = 3x^2 - 192$$

- 1 Factor.
- 2 Where are the **zeros**?
- 3 What is the coordinate of the **vertex**?
- 4 **Graph** your parabola, **labeling** zeros and vertex.

Task 8:

$$y = (x - 1)(x - 7)$$

- 1 Where are the **zeros**?
- 2 What is the coordinate of the **vertex**?
- 3 **Graph** your parabola, **labeling** zeros and vertex.
- 4 Convert your equation to **Standard Form**.

Task 9:

$$y = (x - 2)(x - 11)$$

- ① Where are the **zeros**?
- ② What is the coordinate of the **vertex**?
- ③ **Graph** your parabola, **labeling** zeros and vertex.
- ④ Convert your equation to **Standard Form**.

Task 10:

$$y = 4x^2 - 8x - 32$$

- ① Factor.
- ② Where are the **zeros**?
- ③ What is the coordinate of the **vertex**?
- ④ **Graph** your parabola, **labeling** zeros and vertex.