

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad x = -\frac{b}{2a} \quad m = \frac{y_2 - y_1}{x_2 - x_1} \quad y = mx + b$$

1) Rewrite into standard quadratic form.

$$f(x) = -2(x - 2)^2 + 19$$

Find the vertex.

2) Find the vertex.

$$g(x) = 4x^2 - 8x$$

3) Solve using factoring

$$0 = x^2 + 4x - 5$$

4) Solve using quadratic formula

$$2x^2 - 4x = -5$$

5) Evaluate

$$x^2 - 4x + 2 \text{ for } x = -3$$

6) Evaluate

$$x^2 + 3x - 5 \text{ for } x = -5$$

7)

Find the equation given 2 points

$$(1, 2), (2, 4)$$

8)

Find the equation given 2 points

$$(-2, -3), (1, 3)$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad x = -\frac{b}{2a} \quad m = \frac{y_2 - y_1}{x_2 - x_1} \quad y = mx + b$$

1) Rewrite into standard quadratic form.

$$f(x) = -3(x + 1)^2 - 12$$

Find the vertex.

2) Find the vertex.

$$g(x) = 3x^2 - 6x$$

3) Solve using factoring

$$0 = x^2 - 6x + 9$$

4) Solve using quadratic formula

$$3x^2 = 4x - 2$$

5) Evaluate

$$2x^2 - 3x + 1 \text{ for } x = -3$$

6) Evaluate

$$3x^2 + 3x + 5 \text{ for } x = -5$$

7)

Find the equation given 2 points

$$(2, 3), (-2, 0)$$

8)

Find the equation given 2 points

$$(-2, -3), (0, 3)$$

9)

Find the equation given 2 points

$$(-1, -2), (0, -4)$$