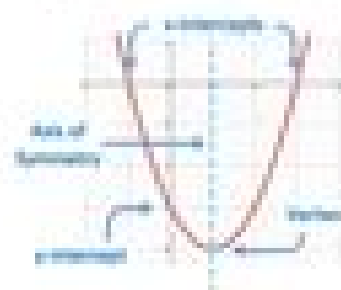


QUADRATIC FUNCTIONS



Vertex Form: $f(x) = a(x - h)^2 + k$

- Can easily find the vertex (h, k)
- a determines whether the graph is stretched ($|a| > 1$) or compressed ($|a| < 1$)
- It will either the graph opens up, while it will flip the graph upside down.
- To find the y-intercept, set $x = 0$ and evaluate.
- To find the x-intercepts, let $y = 0$ and solve (split out of h first, then get rid of h , square root, and get rid of h).

Standard Form: $f(x) = ax^2 + bx + c$

- Can easily find the y-intercept $(0, c)$
- Can find the x-coordinate of the vertex using $-\frac{b}{2a}$, then plug that value in to get the y-coordinate of the vertex.
- Can find the x-intercepts by setting $y = 0$ and solving using any method (factoring, quadratic formula, or completing the square).

Factored Form: $f(x) = a(x - p)(x - q)$

- Can easily find the x-intercepts. Find the value of x that would make each parentheses equal zero.
- The x-coordinate of the vertex will be in the middle of the two x-intercepts.
- The y-intercept can be found by converting to standard form $(b^2/4a)$ and looking at the c value.

Difference of Squares

$$a^2 - b^2 = (a + b)(a - b)$$

$$6x^2 - 9 = (2x + 3)(2x - 3)$$

$$6x^2 - 9 = (2x + 3)(2x - 3)$$

$$6x^2 - 9 = (2x + 3)(2x - 3)$$

Quadratic Formula: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

- This can be used to solve any quadratic equation.
- Before you can use this formula, you have to be sure the equation has to be set equal to zero.
- Usually you will end up with two answers, if you are asked for any one answer, then simplify the square root.

$$6x^2 - 9 = 0 \Rightarrow 6x^2 = 9 \Rightarrow x^2 = \frac{9}{6} \Rightarrow x = \pm \sqrt{\frac{9}{6}} \Rightarrow x = \pm \frac{3}{\sqrt{6}} \Rightarrow x = \pm \frac{3\sqrt{6}}{6} \Rightarrow x = \pm \frac{\sqrt{6}}{2}$$



Discriminant: $b^2 - 4ac$

- The discriminant tells you the number of solutions a quadratic equation will have.

Positive: 2 real solutions.

Zero: 1 real solution.

Negative: 0 real solutions (imaginary solutions)

- The imaginary number $i = \sqrt{-1}$

Completing The Square

- However, use this to solve any quadratic equation (BUT, this is usually your best factoring method).
- Can also be used to convert an equation from standard form to vertex form.
- To 'complete the square', take the b term, divide it by two, and square it. This will end up making it a perfect square.

Discriminant: $b^2 - 4ac$

$$x^2 + 6x + 9 = (x + 3)^2$$

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Factoring when $a = 1$

- Factor when the leading term is x^2 .
- Find two #'s that multiply to c and add to b .

$$x^2 + 5x + 6 = 0$$

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$$x^2 + 5x + 6 = 0$$

- If b is positive, both the signs will be the same, if b is negative, one will be positive and one will be negative.

Factoring when $a \neq 1$

- When $a \neq 1$, then factoring becomes a little more guess and check.
- Use the factor pairs of c .
- When you put them in parentheses, multiply the $FOON$ and $OOON$. Then find the combination that can add up to b .

$$2x^2 + 7x + 3 = 0$$

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$$2x^2 + 7x + 3 = 0$$

- Then make sure the signs are correctly placed to match the sign of c .

$$2x^2 + 7x + 3 = 0$$

Solving Once It's Factored

- Just like the quadratic formula, you need to make sure one side of the equation equals zero.
- Set each set of parentheses equal to zero.
- This will find the solutions (usually used to find the x-intercepts).

$$(2x + 3)(x + 1) = 0$$

$$2x + 3 = 0 \Rightarrow x = -\frac{3}{2}$$

$$x + 1 = 0 \Rightarrow x = -1$$

$$x = -\frac{3}{2} \text{ or } x = -1$$

- Asymptote** is the shape of the graph of a quadratic function. It generally looks like a U.

- If the a value is positive, the graph opens upwards and the vertex is considered a **minimum**.
- If the a value is negative, the graph opens downwards and the vertex is considered a **maximum**.



- The **axis of symmetry** is located at the x-coordinate of the vertex. This is the x value, where points will match up on both sides of that line.

- A **perfect square** is a square of a whole number.

$$1, 4, 9, 16, 25, 36, 49, 64, 81, 100, \dots$$

- The terms **'x-intercepts'** and **'zeros'** mean the same thing.
- The terms **'solutions'** and **'roots'** mean the same thing.

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