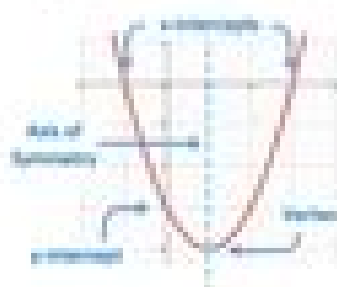


QUADRATIC FUNCTIONS



- A **slope** is the steepness of the graph of a quadratic function. It generally looks like a %.
- 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, etc.
- The terms "x-intercepts" and "zeros" mean the same thing.
- The terms "solutions" and "roots" mean the same thing.

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

- Can easily find the vertex (h, k) & determine whether the graph is stretched $(a > 0)$ or compressed $(a < 0)$.
- It will either be graph left/right, while it will shift the graph up/down.
- To find the y-intercept, set $x = 0$ and evaluate.
- To find the x-intercept(s), let $y = 0$ and solve (get rid of "k" first, then get rid of "a", 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 $(p)(q)$ and looking at the "c" value.

Difference of Squares

$$a^2 - b^2 \rightarrow (a + b)(a - b)$$

$$\text{Ex: } x^2 - 100 \rightarrow (x + 10)(x - 10)$$

$$\text{Ex: } 16x^2 - 25 \rightarrow (4x + 5)(4x - 5)$$

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.

$$\text{Ex: Solve } 3x^2 + 12x + 12 = 0$$

$$x = \frac{-12 \pm \sqrt{12^2 - 4(3)(12)}}{2(3)}$$

$$\begin{aligned} x &= \frac{-12 \pm \sqrt{144 - 144}}{6} \\ x &= \frac{-12 \pm \sqrt{0}}{6} \\ x &= \frac{-12 \pm 0}{6} \\ x &= \frac{-12}{6} \end{aligned}$$

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.

$$\text{Ex: Solve } x^2 + 12x + 36 = 0$$

$$(x + 6)^2 + 36 = 36$$

$$(x + 6)^2 = 36 - 36 \rightarrow (x + 6)^2 = 0$$

$$(x + 6) = 0 \rightarrow x = -6$$

$$\text{Solve: } x = -6$$

$$\text{Answer: } x = -6$$

Factoring when $a = 1$

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

$$\text{Ex: } x^2 + 5x + 6$$

$$1 \cdot 6 = 6$$

$$2 \cdot 3 = 6$$

$$3 \cdot 2 = 6$$

$$6 \cdot 1 = 6$$

$$2 + 3 = 5$$

- 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.
- List the factor pairs of "c".
- When you put them in parentheses, multiply the INSIDE and OUTSIDE. Then find the combination that can add up to "b".

$$\text{Ex: } 2x^2 + 7x - 4$$

$$2 \cdot 4 = 8$$

$$2 \cdot 2 = 4$$

$$2 \cdot 1 = 2$$

$$a \cdot (2x + 4) \cdot (x - 1)$$

$$2x^2 + 2x + 4x - 4$$

$$2x^2 + 6x - 4$$

$$2x^2 + 2x + 4x - 4$$

$$2x^2 + 6x - 4$$

$$2x^2 + 6x - 4$$

$$2x^2 + 6x - 4$$

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

$$(2x + 4)(x - 1)$$

Solving Once It's Factored

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

$$(2x + 10)(x + 5) = 0$$

$$2x + 10 = 0 \quad x + 5 = 0$$

$$2x = -10 \quad x = -5$$

$$x = -5 \quad x = -5$$

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