

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 be graphed up/right, while it will still be graphed down/left.
- To find the y-intercept, set $x = 0$ and evaluate.
- To find the x-intercept(s), 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 ($ax^2 + bx + c$) and looking at the c value.

Difference of Squares

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

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

$$\text{Ex: } 16x^2 - 81 = (4x + 9)(4x - 9)$$

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.

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

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

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

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.

$$\text{Ex: } x^2 + 12x + 36 = (x + 6)^2 \quad \text{Ex: } x^2 + 10x + 25 = (x + 5)^2$$

$$\text{Ex: } x^2 + 6x + 9 = (x + 3)^2$$

$$\text{Ex: } x^2 - 10x + 25 = (x - 5)^2$$

$$\text{Ex: } x^2 - 14x + 49 = (x - 7)^2$$

$$\text{Ex: } x^2 + 8x + 16 = (x + 4)^2$$

$$\text{Ex: } x^2 - 6x + 9 = (x - 3)^2$$

Factoring when $a = 1$

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

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

$$1 \cdot 6 = 6$$

$$2 \cdot 3 = 6$$

$$1 + 6 = 7$$

$$2 + 3 = 5$$

- 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.
- Use the factor pairs of ac .
- When you put them in parentheses, multiply the **FOUR** and **OUTSIDE**. Then find the combination that can add up to b .

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

$$2 \cdot 4 = 8$$

$$2 \cdot 7 = 14$$

$$2 \cdot -4 = -8$$

$$2 \cdot -7 = -14$$

$$1 \cdot 4 = 4$$

$$1 \cdot 7 = 7$$

$$1 \cdot -4 = -4$$

$$1 \cdot -7 = -7$$

$$-1 \cdot 4 = -4$$

$$-1 \cdot 7 = -7$$

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

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

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-intercept).

$$(2x + 4)(x - 1) = 0$$

$$2x + 4 = 0$$

$$2x = -4$$

$$x = -2$$

$$x - 1 = 0$$

$$x = 1$$

$$x = -2, 1$$

- Slope:** is the slope 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.

$$1, 4, 9, 16, 25, 36, 49, 64, 81, 100, \text{ etc.}$$

- The terms **'x-intercept'** and **'zero'** mean the same thing.
- The terms **'solutions'** and **'roots'** mean the same thing.

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web during its life cycle an organism goes through physical changes that allow it to reach adulthood and produce new organisms since these changes are common within a species they can be grouped into stages of development the unit life cycles addresses the life cycles of plants and animals including humans

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web apr 7 2019 this life cycles and traits unit was my first attempt at creating a whole unit of learning it correlates to the next generation science standards 3 ls1 1 3 ls3 1 and 3 ls3 2 looking back on it now i see lessons i already want to improve but for now you can find the unit for free by clicking on the link below

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web lesson plan life cycle by nichole hughes and darby feldwinn target grade 3rd teacher prep time 60 minutes lesson time 4 hours and 5 minutes not including the life cycle journal we recommend doing this lesson over five days 5 hours and 20 minutes life cycle journal this must be spread out over eight weeks recording data twice a

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web an in depth look at the plant and animal life cycle science stations below is information and details about each of the plant and animal life cycle science stations which address ngss 3 ls1 b and include concepts such as animal life cycles plant life cycles and parts of

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