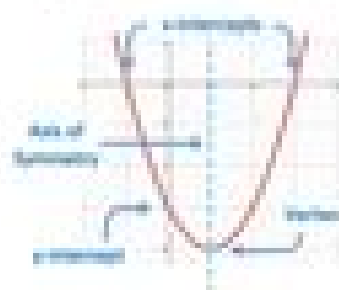


QUADRATIC FUNCTIONS



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 downwards.
- 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 ($ax^2 + bx + c$) and looking at the c value.

Difference of Squares

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

$$6x^2 - 9 = 3(2x^2 - 3) = 3(2x - \sqrt{3})(2x + \sqrt{3})$$

$$6x^2 - 9 = 3(2x^2 - 3) = 3(2x - \sqrt{3})(2x + \sqrt{3})$$

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 need to be in the equation form $ax^2 + bx + c = 0$.
- Usually you will end up with two answers, if you are asked for any one answer, then simplify the square root.

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

$$x = \pm \sqrt{\frac{9}{6}} = \pm \frac{3}{\sqrt{6}} = \pm \frac{3\sqrt{6}}{6} = \pm \frac{\sqrt{6}}{2}$$



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, you think to solve any quadratic equation (BUT, this is usually your best friends 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.

$$x^2 + 6x + 5 = 0 \rightarrow x^2 + 6x = -5$$

$$(x + 3)^2 = 9 - 5 = 4$$

$$(x + 3)^2 = 4 \rightarrow x + 3 = \pm 2$$

$$x + 3 = 2 \rightarrow x = -1$$

$$x + 3 = -2 \rightarrow x = -5$$

Factoring when $a = 1$

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

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

$$1 \cdot 6 = 6$$

$$2 \cdot 3 = 6$$

$$2 + 3 = 5$$

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

- 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 .

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

$$1 \cdot 6 = 6$$

$$2 \cdot 3 = 6$$

$$-2 \cdot -3 = 6$$

$$6(2x - 1)(x + 3)$$

to make sure you're right

- 1. $6x \cdot 2x = 12x^2$
- 2. $6x \cdot 3 = 18x$
- 3. $-1 \cdot 6x = -6x$
- 4. $-1 \cdot 3 = -3$
- 5. $12x^2 + 18x - 6x - 3 = 12x^2 + 12x - 3$

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

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

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).

$$(25x + 100)(-x + 5) = 0$$

$$25x + 100 = 0$$

$$25x = -100$$

$$x = -4$$

$$-x + 5 = 0$$

$$-x = -5$$

$$x = 5$$

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

Good Notes For Algebra 2 Cheat Sheet

Rosina Ehmann



Good Notes For Algebra 2 Cheat Sheet:

Good Notes For Algebra 2 Cheat Sheet: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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