

## 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

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

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

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**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.

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

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



**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.

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

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

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

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

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

**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 **FOUR** and **OUTSIDE**. Then find the combination that can add up to  $b$ .

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

$$1 \cdot 6 = 6$$

$$2 \cdot 3 = 6$$

$$3 \cdot 2 = 6$$

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

to make sure that it's

$$6(3x - 2)(x + 3) = 6(3x^2 + 9x - 2x - 6) = 6(3x^2 + 7x - 6)$$

$$6(3x^2 + 7x - 6) = 18x^2 + 42x - 36$$

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

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

**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-intercept).

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

$$25x + 100 = 0$$

$$25x = -100$$

$$x = -4$$

$$-x + 5 = 0$$

$$-x = -5$$

$$x = 5$$



- 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-intercept' and 'zero' mean the same thing.

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

# Good Notes For Algebra 2 Cheat Sheet

**B Lingard**



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