

ALGEBRA I END OF COURSE STUDY GUIDE

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Slope $y = mx + b$
m is the slope
b is the y-axis intercept

Find Slope given a table:



Find Slope given a graph:



Linear Functions:

Possible representations

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Quadratics: Parabolic function $y = ax^2 + bx + c$



Exponent Basics: $x^a \cdot x^b = x^{a+b}$, $x^a \div x^b = x^{a-b}$, $(x^a)^b = x^{a \cdot b}$

Add Exponents & multiply numbers

$$x \cdot x = x^2, x^2 \cdot x^2 = x^4, 3x \cdot 2x^2 = 6x^3$$

$$x^2 \cdot x^2 = x^4, 2x^2 \cdot 3x^2 = 6x^4, (2x^2)^2 = 4x^4, 3x^2 \cdot 4x^2 = 12x^4$$

$$4x^2 \cdot 3x^2 = 12x^4, 3x^2 \cdot 4x^2 = 12x^4, 3x^2 \cdot 4x^2 = 12x^4$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3, \frac{27x^3y^3}{3x^2y^2} = 9xy$$

$$\frac{(-6x^2y^3)(2x^2y^3)}{-18x^2y^3} = \frac{-12x^4y^6}{-18x^2y^3} = \frac{2x^2y^3}{3}$$

Solve for 'y'

$$3x + 4y = 24$$

$$-3x \quad -3x$$

$$4y = -3x + 24$$

$$\frac{4y}{4} = \frac{-3x + 24}{4}$$

$$y = -\frac{3}{4}x + 6$$

Steps:

- Add positive or negative 'y' opposite sign of y.
- Cancel integers then bring down carefully.
- Divide by the number in front of y.
- Rewrite.

Distributive property

$$4(x + 3) = 4x + 12$$

$$-3x(7x - 4) + 6x = (-21x^2 + 12x) + 6x = -21x^2 + 18x$$

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 6ab^2)$$

$$6ab^2 - 16ab^2 - \frac{64}{3}ab^2 + 4ab^2$$

$$5ab^2 - 2ab^2$$

Combine 'Like Terms'

Same Variables with the Same Exponents

Find the slope of the line passing through (1, 2) and (3, 4)

x	y
1	2
3	4

$$\frac{\Delta y}{\Delta x} = \frac{4-2}{3-1} = \frac{2}{2} = 1$$

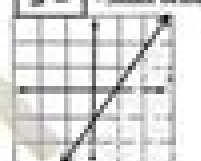
$y <$

- Less than
- Dashed line
- Shade below



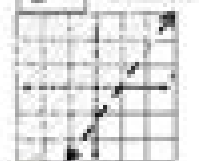
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- Shade below



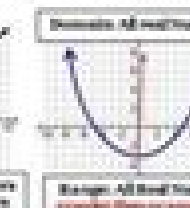
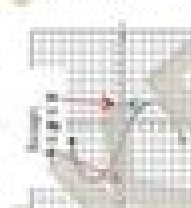
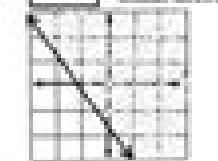
$y >$

- More than
- Dashed line
- Shade above



$y \geq$

- More than or equal to
- Solid line
- Shade above

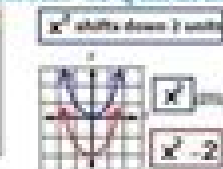


Transformations of Quadratic Functions

Vertical Shift

Replacing x^2 with $x^2 + c$ results in shift of c units **up**.

Replacing x^2 with $x^2 - c$ results in shift of c units **down**.



Horizontal compression

Changing x^2 to $(\frac{1}{2}x)^2$ compresses the parabola horizontally, making it **NARROWER**.



Horizontal stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally, making it **WIDER**.



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