

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

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

$$x^2 \cdot x^2 = x^4, 3x^2 \cdot 2x^2 = 6x^4, 3x^2 \cdot 2x^3 = 6x^5$$

$$4x^2 \cdot 3x^3 = 12x^5, 3x^2 \cdot 4x^3 = 12x^5, 3x^2 \cdot 4x^4 = 12x^6$$

Subtract Exponents & Divide numbers

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

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

Solve for 'y'

$$3x + 4y = 24$$

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

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

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

Steps:

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

Distributive property

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

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

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

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

$$6ab - 24ab^2 + 4a^2b$$

Combine Like Terms
 Same Variables with the Same Exponents

Answer: $12x^2 + 18x + 12$



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.

Result is a 'wider' parabola.

NARROWER



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally.

Result is a 'wider' parabola.

WIDER



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