

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

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

$$x^2 \cdot x^2 = x^4, (2x^2)^2 = 4x^4, (3x^2)^2 = 9x^4$$

$$4x^2 \cdot x^2 = 4x^4, (3x^2)^2 = 9x^4, (2x^2)^2 = 4x^4$$

Subtract Exponents & Divide numbers

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

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

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

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

$$-3x(7x - 4) + 6x - (3x - 2x^2) = -21x^2 + 12x + 6x - 3x + 2x^2 = -19x^2 + 15x + 6$$

$$\frac{2}{5}(15ab - 40ab^2) - \frac{2}{3}(32ab^2 - 6a^2b) = 6ab - 16ab^2 - \frac{64}{3}ab^2 + 4a^2b = 6ab - 2ab^2 + 4a^2b$$

Combine 'Like Terms'
 Same Variables with the Same Exponents

Find the sum of $(2x + 3y + 4z) + (x + 2y + 3z)$

	$2x + 3y + 4z$	$x + 2y + 3z$	Sum
$2x$	$2x$	x	$3x$
$3y$	$3y$	$2y$	$5y$
$4z$	$4z$	$3z$	$7z$

Answer: $3x + 5y + 7z$



Transformations of Quadratic Functions



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Clemens Wendtner



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