

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

Save \$100 per week	Job pay
Silly string cost \$1.25 per can	Cost of a can
Charged \$1.25 every minute	Cost of a minute
Earl's car is 100 miles	Distance
Car rental costs \$100 plus \$15 a day	Cost of a day
Represented 1/2 mile per second	Speed
One person every 10 minutes, 10 = hours	Time
Earns 2.5% commission on sales	Commission

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



Exponent Basics: $x^a \cdot x^b = x^{a+b}$, $x^a \div x^b = x^{a-b}$, $x^0 = 1$

Add Exponents & multiply numbers

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

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

$$4x^2 \cdot 3x^2 = 12x^4, 3x^2 \cdot 4x^2 = 12x^4, 12x^2 \cdot 1x^2 = 12x^4$$

Subtract Exponents & Divide numbers

$$\frac{x^3}{x^2} = x^{3-2} = x^1 = x, \frac{27x^3y^3}{3x^2y^2} = 9x^{3-2}y^{3-2} = 9xy$$

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

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

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

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

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 8ab^2)$$

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

$$-10ab^2 - \frac{48}{3}ab^2 + \frac{16}{3}ab^2$$

$$-10ab^2 - 16ab^2 + \frac{16}{3}ab^2$$

$$-26ab^2 + \frac{16}{3}ab^2$$

Combine 'Like Terms'

Same Variables with the Same Exponents

Find the sum: $(7x^2 + 3x + 4) + (2x^2 + 5x + 1)$

x^2	x	Constant
$7x^2 + 2x^2 = 9x^2$	$3x + 5x = 8x$	$4 + 1 = 5$

Answer: $9x^2 + 8x + 5$



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 to 1/2 the width of the original parabola.

NARROWER



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally to 2 times the width of the original parabola.

WIDER



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Minjie Lin



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