

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:

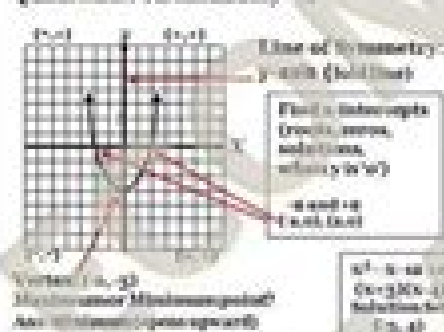


Linear Functions:

Possible representations

Save \$100 per week	100/week
Silly string cost \$5.00 per can	5.00/can
Charged \$5.00 every minute	5.00/minute
Earned \$1.00 per hour	1.00/hour
Car rental costs \$30.00 plus \$0.15 per mile	30.00 + .15/mile
Represented 1/2 mile per second	1/2 mi/sec
One person every 4 minutes, 10 hours	1 person/4 min
Earned 2.5% commission on sales	2.5%/sales

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

$$x \cdot x = x^2$$

$$x^2 \cdot x^2 = x^4$$

$$x^3 \cdot x^2 = x^5$$

$$x^4 \cdot x^3 = x^7$$

$$x^5 \cdot x^2 = x^7$$

$$x^6 \cdot x^1 = x^7$$

$$x^7 \cdot x^0 = x^7$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3$$

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

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

Distributive property

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

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

$$-21x^2 + 12x + 6x = -21x^2 + 18x$$

$$3x^2 + 18x - 12$$

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

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

$$6ab - 24ab^2 - \frac{64}{3}ab^2 + 4a^2b$$

Combine Like Terms
 Same Variables with the Same Exponents

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

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - 2}{3 - (-1)} = \frac{-6}{4} = -\frac{3}{2}$

Equation of the line: $y - 2 = -\frac{3}{2}(x + 1)$

$y - 2 = -\frac{3}{2}x - \frac{3}{2}$

$y = -\frac{3}{2}x - \frac{3}{2} + 2$

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



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.



Algebra Readiness Test Study Guide

Reza Nazari



Algebra Readiness Test Study Guide:

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