

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:

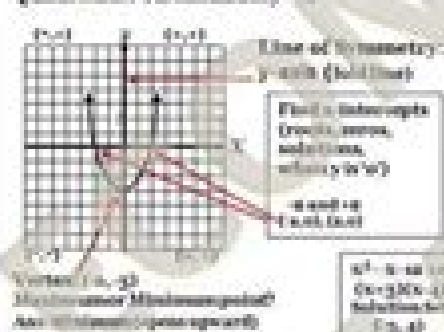


Linear Functions:

Possible representations

Save \$100 per week	100/week
Silly string cost \$5.00 per can	5.00/can
Charged \$4.00 every minute	4.00/minute
Earl's car 100 miles per hour	100/mph
Car rental costs \$30.00 plus \$15.00 per day	30.00 + 15.00/day
Represented 1/2 cup half price on a combination	1/2 cup = 1/2 price
One person every 4 minutes, 10 = hours	10/4 min
Earns 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

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

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

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

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

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

$$x^6 \cdot x^2 = x^8$$

$$x^7 \cdot x^2 = x^9$$

$$x^8 \cdot x^2 = x^{10}$$

$$x^9 \cdot x^2 = x^{11}$$

$$x^{10} \cdot x^2 = x^{12}$$

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$$x^{97} \cdot x^2 = x^{99}$$

$$x^{98} \cdot x^2 = x^{100}$$

Subtract Exponents & Divide numbers

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

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

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

Distributive property

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

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

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

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

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

$$9ab^2 - 4ab^2 - 2ab^2 + 4ab^2$$

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

Combine Like Terms
 Same Variables with the Same Exponents

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

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

Equation of the line: $y - 2 = 1(x - 1)$
 $y - 2 = x - 1$
 $y = x + 1$



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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Annelies Wilder-Smith



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