

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:

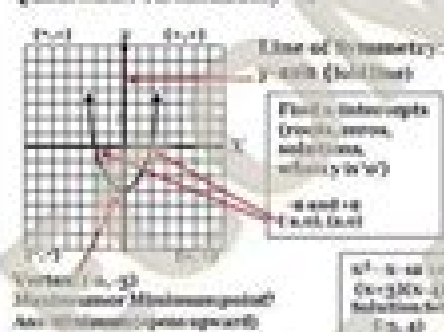


Linear Functions:

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
Earliest 100% discount	Discount
Car rental costs \$100 plus \$15 a day	Car rental cost
Represented by half price on a weekend	Discount
One person pays 1/2 of the bill, 2 = hours	Cost of a person
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

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

$$x^2 \cdot x^2 = x^4, x^2 \cdot x^3 = x^5, (2x^2)^2 = 4x^4, (3x^2)^2 = 9x^4, (2x^2)^3 = 8x^6, (3x^2)^3 = 27x^6$$

$$4x^2 \cdot x^3 = 4x^5, x^2 \cdot x^3 = x^5, (2x^2)^2 = 4x^4, (3x^2)^2 = 9x^4, (2x^2)^3 = 8x^6, (3x^2)^3 = 27x^6$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^{5-2} = x^3, \frac{27x^3 \cdot y^3}{3x^2 \cdot y^2} = \frac{9x^1 \cdot y^1}{1} = 9xy$$

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

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

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

$$-3x(7x - 4) + 6x - (3x - 2x^2)$$

$$-21x^2 + 12x + 6x - 3x + 2x^2$$

$$-19x^2 + 15x - 3x + 2x^2 = -17x^2 + 12x - 3$$

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

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

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

Combine 'Like Terms'

Same Variables with the Same Exponents

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

x	y
1	2
3	4

$$\frac{\Delta y}{\Delta x} = \frac{4-2}{3-1} = \frac{2}{2} = 1$$

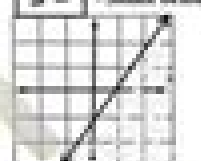
$y <$

- Less than
- Dashed line
- Shade below



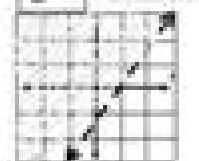
$y \leq$

- Less than or equal to
- Solid line
- Shade below



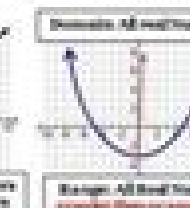
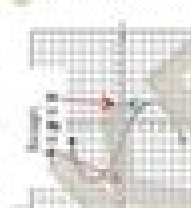
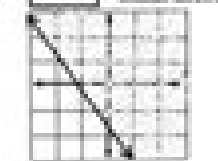
$y >$

- More than
- Dashed line
- Shade above



$y \geq$

- More than or equal to
- Solid line
- Shade above



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.

x^2 shifts down 2 units



$x^2 + 3$ shifts up 3 units



Horizontal compression

Changing x^2 to $(\frac{1}{2}x)^2$ compresses the parabola horizontally.

Result is 'Narrower'



Horizontal stretch

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

Result is 'Wider'



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