

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:

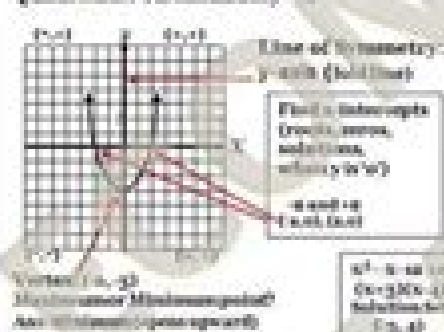


Linear Functions:

Possible representations

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Charged \$5.00 every minute	Cost of a minute
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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

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

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

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

$$-19x^2 + 15x - 3x + 2x^2$$

$$-17x^2 + 12x - 3$$

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

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

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

Combine 'Like Terms'

Same Variables with the Same Exponents

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

Answer: $\frac{2-2}{2-1} = \frac{0}{1} = 0$



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.



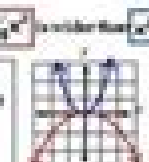
Horizontal Compression

Changing x^2 to $(\frac{1}{2}x)^2$ compresses the parabola horizontally towards the y-axis, making it narrower.



Horizontal Stretch

Changing x^2 to $(2x)^2$ stretches the parabola horizontally away from the y-axis, making it wider.



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1 schematic diagram 2 function of flash inter cooler water

flash intercooling diagram air conditioning beyond discovery - Feb 28 2023

web aug 5 2023 in a flash intercooler cooling of superheated vapor is achieved by passing the vapor through a series of finned tubes located within a large chamber that is filled with cold air as the vapor passes through the finned tubes it is cooled by the cold air condensing some of the vapor into liquid

solved the flash chamber intercooler allows the refrigerant to ente - Apr 20 2022

web apr 6 2023 clearly the flash chamber intercooler allows the refrigerant to enter the 2nd state of the compressor of the vapour compression refrigeration system at the state of superheated vapour after the condenser condenses the refrigerant it is passed through an expansion valve to reduce its pressure to evaporator pressure