

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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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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Combine Like Terms
 Same Variables with the Same Exponents

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

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

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

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

$y = \frac{1}{2}x + \frac{5}{2}$



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.



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transformers voltage drop over current protection and residential and commercial load calculations The text contains the most widely used electrical calculations and formulas the reader needs to pass the Journeyman electrical competency exam About the Author Ray Holder has worked in the electrical industry for more than 40 years as an apprentice journeyman master field engineer estimator business manager contractor inspector and instructor He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers

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