

# 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:  $x^a \cdot x^b = x^{a+b}$ ,  $x^a \div x^b = x^{a-b}$ ,  $x^0 = 1$

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

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

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

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

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

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

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

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

Combine Like Terms  
 Same Variables with the Same Exponents

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

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



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 Concepts And Applications Study Guide Answers

**Marion Griffiths**



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1. 1.1 In a few sentences, what were Mendel's key ideas about inheritance? ANS: Mendel postulated transmissible factors—genes—to.