

# 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 type gas (1 week)	1 year
Silly string cost \$4.25 per can	1.425
Charged \$5.00 every minute	5.00/minute
Earned \$1.25 per hour	\$1.25/hour
Car rental costs \$30 plus \$15 per day	\$45/day
Represented by half price discount card	0.5 = 1/2
One person pays 1/3 interest on a loan	1/3
Earns 2.75% commission on sales	0.0275



**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**

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

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

$$2x^2 \cdot 3x^3 = 6x^5$$

$$x^2 \cdot x^3 \cdot x^4 = x^9$$

$$(2 \cdot 3 \cdot 4x^2)^2 = 2^2 \cdot 3^2 \cdot 4^2 \cdot x^{2 \cdot 2} = 144x^4$$

**Subtract Exponents & Divide numbers**

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

$$\frac{27x^3y^6}{3x^2y^3} = \frac{27}{3} x^{3-2} y^{6-3} = 9xy^3$$

$$\frac{(-6x^2)(2x^3)}{-18x^5} = \frac{-12x^5}{-18x^5} = \frac{2}{3}$$

Independent	Dependent
x	f(x)
Domain	Range
$2x - 4$	$y =$
$8h$	$V =$
$ax^2$	$A =$
Number of items	Total cost \$
Number of hours worked	Amount of money \$ earned

**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 to opposite side of  $y$ .
- Cancel out  $y$  then bring down carefully.
- Divide by the number to front of  $y$ .
- Rewrite.

## Distributive property

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

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

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

$$3x^2 + 18x - 21$$

$$\frac{2}{5} (15a^2b - 40ab^2) - \frac{3}{2} (20ab^2 - 6a^2b)$$

$$6a^2b - 16ab^2 - 30ab^2 + 9a^2b$$

$$5a^2b - 26ab^2$$

Combine Like Terms!  
 Same Variables with the Same Exponents

Use distributive property:  $(a+b)(c+d) = ac + bc + ad + bd$

$(x + 4)(2x^2)$	$2x^3 + 8x^2$
$(x + 4)(x)$	$x^2 + 4x$
$(x + 4)(1)$	$x + 4$



## 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. It is **NARROWER**.

**Horizontal Stretch**  
 Changing  $x^2$  to  $(2x)^2$  stretches the parabola horizontally. It is **WIDER**.

# Study Guide For Intermediate Algebra

**Malinowski**



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