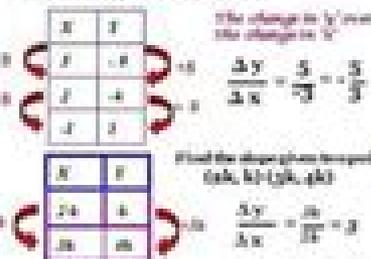


# ALGEBRA I END OF COURSE STUDY GUIDE

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**Slope**  $y = mx + b$   
*m* is the slope  
*b* is the y-axis intercept

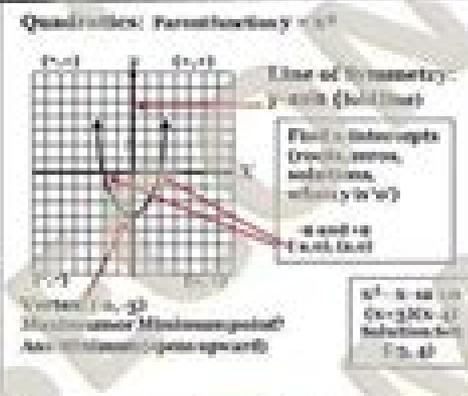
Find Slope given a table:



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 \$4.25 every minute	4.25 cents
Earned \$1.25 per hour	\$1.25/hour
Car rental costs \$30 plus \$15 per day	\$45 per day
Represented by half-pipe in a competition	$x = 15x$
One person every 10 minutes, 10 = hours	10 per hour
Earns 2.7% commission on sales	2.7% per sale



**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**

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

$$x^3 \cdot x^2 = 2x \cdot 2x \cdot 2x \cdot x^2 = 8x^5$$

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

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

$$(3 \cdot 2x^2)^2 = 9^2 \cdot x^4 = 27x^4$$

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

$$(2x^2 \cdot 3x^2)^2 = (6x^4)^2 = 36x^8$$

**Subtract Exponents & Divide numbers**

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

$$\frac{27x^5y^3}{3x^2y^2} = \frac{9x^3y^3}{x^2y^2} = 9xy$$

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

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

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

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

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

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

$$\frac{2}{5} (15x^2b - 40ab^2) - \frac{2}{3} (30ab^2 - 6a^2b)$$

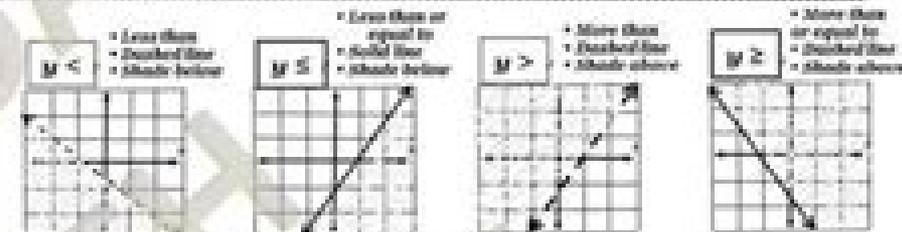
$$6x^2b - 16ab^2 - 40ab^2 + 4a^2b$$

$$6x^2b - 24ab^2 + 4a^2b$$

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**.



# Algebra Study Guide Mathematics Ser

**Jicheng Xie**



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