

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	$x = 15t$
One person every 15 minutes, 8 hours	48 people
Earns 2.7% commission on sales	2.7% commission



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

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

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

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

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

$$(3 \text{ abs}) x^2 \cdot 2^3 x^3 = 2^3 x^2 \cdot x^3 = 27x^5$$

$$4 \cdot x^2 \cdot x^3 = 4 \cdot x^2 \cdot x^3 = 4x^5$$

$$(2x^2)^3 \cdot (3x^3)^2 = 8x^6 \cdot 9x^6 = 72x^{12}$$

Subtract Exponents & Divide numbers

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

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

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

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

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

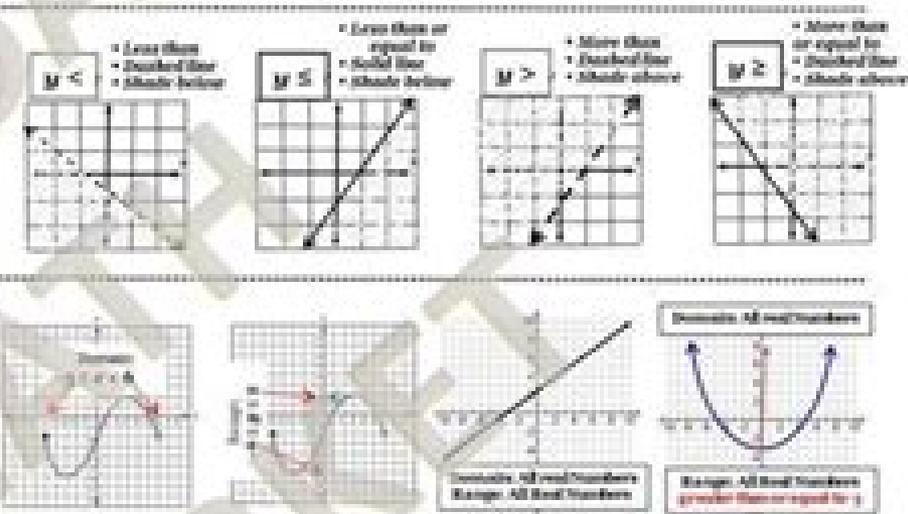
$$-21x^2 + 12x + 6x = 18x + 6x - 21x^2 = 24x + 6x - 21x^2 = 30x - 21x^2$$

Combine Like Terms
 Same Variables with the Same Exponents

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

$$6a^2b - 16ab^2 - 30ab^2 + 9a^2b = 15a^2b - 46ab^2$$

Answer: $15a^2b - 46ab^2$



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 $(\frac{1}{2}x)^2$ results in a narrower parabola.

Horizontal Stretch
 Changing x^2 to $(2x)^2$ results in a wider parabola.

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

$$3x + 4y = 24$$

$$-3x$$

$$4y = -3x + 24$$

$$\frac{4y}{4} = \frac{-3x + 24}{4}$$

$$y = -\frac{3}{4}x + 6$$

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.

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A Loxley



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