

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:

x	y	$\frac{\Delta y}{\Delta x}$	the change in y /the change in x
1	5	-5	-5
2	4	-1	-1
3	3	-1	-1
4	2	-1	-1

Find the slope given two points: $(x_1, y_1), (x_2, y_2)$

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Find Slope given a graph:

Method A:

- Choose any two points
- Create table with points
- Find Δx and Δy

Method B:



Independent x

Dependent $y = f(x)$

Range:

$\Delta x = 1$

$y = 1$

$\Delta y = 0$

Total cost: 10

Number of items

Number of hours worked

Associated cost: 10

constant

Solve for 'y'

$3x + 4y = 24$

$-3x$ $-3x$

$4y = -3x + 24$

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

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

Steps:

- Add a positive or negative 'x' opposite sign of x_2 .
- Cancel out pair then bring down correctly.
- Divide by the number in front of y .
- Rewrite.

Linear Functions:		Possible representations
Slope-Intercept form	Standard Form	$y = mx + b$
Point-Slope form	General Form	$y - y_1 = m(x - x_1)$
Two-Point Form	Equation of a Line	$y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$
Distance Formula	Distance Formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Midpoint Formula	Midpoint Formula	$(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$
Area of a Triangle	Area of a Triangle	$\frac{1}{2} \times \text{base} \times \text{height}$
Area of a Trapezoid	Area of a Trapezoid	$\frac{1}{2} \times (\text{base}_1 + \text{base}_2) \times \text{height}$
Area of a Parallelogram	Area of a Parallelogram	$\text{base} \times \text{height}$
Area of a Rhombus	Area of a Rhombus	$\frac{1}{2} \times \text{product of diagonals}$
Area of a Kite	Area of a Kite	$\frac{1}{2} \times \text{product of diagonals}$
Area of a Circle	Area of a Circle	πr^2
Volume of a Rectangular Prism	Volume of a Rectangular Prism	$\text{length} \times \text{width} \times \text{height}$
Surface Area of a Rectangular Prism	Surface Area of a Rectangular Prism	$2(\text{length} \times \text{width} + \text{length} \times \text{height} + \text{width} \times \text{height})$
Surface Area of a Sphere	Surface Area of a Sphere	$4\pi r^2$
Volume of a Sphere	Volume of a Sphere	$\frac{4}{3}\pi r^3$
Surface Area of a Cone	Surface Area of a Cone	$\pi r^2 + \pi r \sqrt{r^2 + h^2}$
Volume of a Cone	Volume of a Cone	$\frac{1}{3}\pi r^2 h$
Surface Area of a Cylinder	Surface Area of a Cylinder	$2\pi r^2 + 2\pi rh$
Volume of a Cylinder	Volume of a Cylinder	$\pi r^2 h$

Distributive property

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

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

$$-21x^2 + 12x + 6x = 12 + 7x - 12$$

$$-21x^2 + 18x = 7x$$

$$3x^2 - 6x = 0$$

$$\text{Factor out } 3x: 3x(x - 2) = 0$$

$$\text{Set each factor equal to zero: } 3x = 0 \text{ or } x - 2 = 0$$



$y <$
 \bullet Less than
 \bullet Dashed line
 \bullet Shaded below

$y \leq$

$y \geq$
 \bullet Less than or equal to
 \bullet Solid line
 \bullet Shaded below

$y >$

$y \geq$
 \bullet More than
 \bullet Dashed line
 \bullet Shaded above

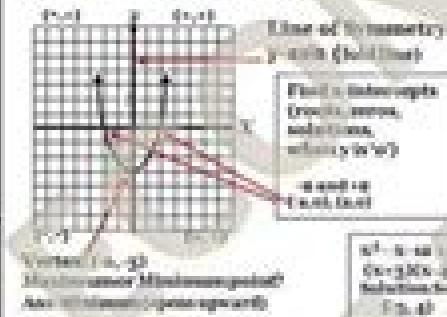
$y \leq$

$y \leq$
 \bullet More than or equal to
 \bullet Solid line
 \bullet Shaded above

Combine Like Terms
 Same Variables with the Same Exponents

$$\text{Answer: } 30x^2 + 12x + 2$$

Quadratics: Parabolas $y = x^2$



Exponent Basics: $x = x^1$ $x^2 = \frac{1}{x}$ $x^0 = 1$

Add Exponents & multiply numbers:

$$x^a \cdot x^b = x^{a+b}$$

$$x^a \cdot x^b \cdot x^c = x^{a+b+c}$$

$$(x^a)^b = x^{ab}$$

$$(x^a)^b \cdot (x^c)^d = x^{ab+cd}$$

Subtract Exponents & Divide numbers:

$$\frac{x^a}{x^b} = x^{a-b}$$

$$\frac{x^a}{x^b} \cdot \frac{x^c}{x^d} = \frac{x^{a+c}}{x^{b+d}}$$

$$\frac{(x^a)^b}{(x^c)^d} = \frac{x^{ab}}{x^{cd}}$$

$$\frac{x^a}{x^b} \cdot \frac{y^c}{y^d} = \frac{x^a y^c}{x^b y^d}$$

$$\frac{(x^a)^b}{(y^c)^d} = \frac{x^{ab}}{y^{cd}}$$

$$\frac{x^a}{y^b} \cdot \frac{z^c}{w^d} = \frac{x^a z^c}{y^b w^d}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} = \frac{x^{ab} z^{ef}}{y^{cd} w^{gh}}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} \cdot \frac{(x^i)^j}{(y^k)^l} = \frac{x^{ab+ij}}{y^{cd+kl}}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} \cdot \frac{(x^i)^j}{(y^k)^l} \cdot \frac{(z^m)^n}{(w^o)^p} = \frac{x^{ab+ij+mn}}{y^{cd+kl+op}}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} \cdot \frac{(x^i)^j}{(y^k)^l} \cdot \frac{(z^m)^n}{(w^o)^p} \cdot \frac{(x^p)^q}{(y^r)^s} = \frac{x^{ab+ij+mn+pq}}{y^{cd+kl+op+rs}}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} \cdot \frac{(x^i)^j}{(y^k)^l} \cdot \frac{(z^m)^n}{(w^o)^p} \cdot \frac{(x^p)^q}{(y^r)^s} \cdot \frac{(z^s)^t}{(w^u)^v} = \frac{x^{ab+ij+mn+pq+st}}{y^{cd+kl+op+rs+uv}}$$

$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h} \cdot \frac{(x^i)^j}{(y^k)^l} \cdot \frac{(z^m)^n}{(w^o)^p} \cdot \frac{(x^p)^q}{(y^r)^s} \cdot \frac{(z^s)^t}{(w^u)^v} \cdot \frac{(x^u)^v}{(y^w)^x} = \frac{x^{ab+ij+mn+pq+st+uv}}{y^{cd+kl+op+rs+uv}}$$

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$$\frac{(x^a)^b}{(y^c)^d} \cdot \frac{(z^e)^f}{(w^g)^h$$

Algebra 1 Study Guide With Answers

Miriam A. Leiva

Algebra 1 Study Guide With Answers:

Algebra 1 Study Guide Miriam A. Leiva,2001

Educational Advisory Manual United States. War Department.

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