

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	$\frac{\Delta y}{\Delta x}$	$\frac{\text{The change in } y}{\text{The change in } x}$
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:

$\Delta x = 4$

$\Delta y = 5$

$y = \frac{5}{4}x$

Number of items

$\Delta x = 4$

$\Delta y = 5$

Total cost $\$8$

Number of hours worked

Associated cost $\$8$ per hour

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 .
- Cancel out pair then bring down correctly.
- Divide by the number in front of y .
- Rewrite.

Linear Functions:		Possible representations
Slope-Intercept form	Graph	$y = mx + b$
Table	Graph	$y = mx + b$
Point-Slope form	Graph	$y - y_1 = m(x - x_1)$
Standard Form	Graph	$ax + by = c$
Equation of a vertical line	Graph	$x = a$
Equation of a horizontal line	Graph	$y = b$
Equation of a line parallel to the x-axis	Graph	$y = mx + b$
Equation of a line parallel to the y-axis	Graph	$x = a$
Equation of a line perpendicular to the x-axis	Graph	$y = b$
Equation of a line perpendicular to the y-axis	Graph	$x = a$
Equation of a line perpendicular to the x-axis and passing through (x_1, y_1)	Graph	$x = x_1$
Equation of a line perpendicular to the y-axis and passing through (x_1, y_1)	Graph	$y = y_1$
Equation of a line perpendicular to the x-axis and passing through (x_1, y_1)	Graph	$x = x_1$
Equation of a line perpendicular to the y-axis and passing through (x_1, y_1)	Graph	$y = y_1$
Equation of a line perpendicular to the x-axis and passing through (x_1, y_1)	Graph	$x = x_1$
Equation of a line perpendicular to the y-axis and passing through (x_1, y_1)	Graph	$y = y_1$

Distributive property

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

$$-3x(7x - 4) + 6x = (13) - 3x^2 + 7x$$

$$-21x^2 + 12x + 6x = 13 + 7x^2$$

$$-21x^2 + 18x + 13 = 7x^2 + 6x - 13$$

$$34x^2 + 12x - 13 = 0$$

$$2x^2 + 3x - 1 = 0$$

$$y <$$

- Less than
- Blank line
- Shade below

$$y \leq$$

- Less than or equal to
- Blank line
- Shade below

$$y >$$

- More than
- Dashed line
- Shade above

$$y \geq$$

- More than or equal to
- Dashed line
- Shade above

Combine Like Terms
 Same Variables with the Same Exponents

$$3(15x^2 - 40x^2) + \frac{2(35x^2 - 6x^2)}{3}$$

$$9x^2b - 24x^2b + 22x^2b - 4x^2b$$

$$5x^2b - 2x^2b$$

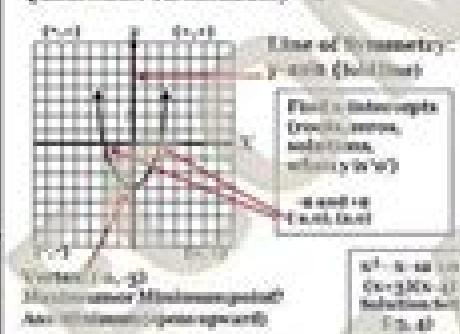
$$2x + 4x = 6x^2$$

$$3x + 2 = 15x$$

$$-2 = 15x - 6$$

$$\text{Answer: } 6x^2 - 15x + 6$$

Quadratics: Parabolas $y = x^2$



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

Add Exponents & multiply numbers

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

$$x^2 \cdot x^3 = x^{2+3} = x^5$$

$$3x^2 \cdot 2x^3 = 6x^{2+3} = 6x^5$$

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

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Subtract Exponents & Divide numbers

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

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The PRAXIS I Math Study Guide

Questions and the PRAXIS I Math Skills Test Questions: A Statistical Study Mary Elaine Wilkins,2012 In 2001 No Child Left Behind introduced the highly qualified status for k 12 teachers which mandated the successful scores on a series of high stakes test within this series is the Pre Professional Skills Test PPST or PRAXIS I The PPST measures basic k 12 skills for reading writing and mathematics The mathematics sub test is a national concern because some American high school students may graduate with basic math skills deficits that may prohibit their performance on the PPST One approach to understanding this national concern is to explore the PPST preparation materials This study focused on the numbers and operations Algebra Geometry and measurement and data analysis and probability categories found within the study guide questions and test questions to statistically address the categorical reading ease and grade level means for the PPST study guide basic math skills questions and the PPST basic math skills test questions The purpose of this study was to analyze the effectiveness of the PPST study guide questions when compared to the PPST basic math skills test questions The math test was selected because on the reading grammar and math portions of the PPST basic skills test across demographic groups tested the math score is reflective of lower scores earned To enhance learning it is hypothesized that study guide questions should be more complex than test questions are this hypothesis is based upon low road transfer of knowledge and high road transfer of knowledge Involving only ETS questions the one way ANOVA and Scheffe method examined this theory The sample consisted of 320 questions 200 questions were eliminated because of duplication and 10 questions were removed due to categorical contamination One hundred and ten questions remained in the study The statistical results revealed no significance differences between the study guide questions and the test questions for numbers and operations Algebra and Geometry and measurement The data analysis and probability questions were eliminated Statistical evidence supports the position that a low road knowledge of transfer exist between the PPST math study guide questions and the PPST basic math skills test questions

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