

Eureka Math™

Exit Ticket Packet 1

Topics A–B

FL State Adoption Bid # 3693

Grade 8

Module 4

Topic A

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Topic B

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Name _____

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Lesson 1: Writing Equations Using Symbols

Exit Ticket

Write each of the following statements using symbolic language.

1. When you square five times a number, you get three more than the number.

2. Monica had some cookies. She gave seven to her sister. Then, she divided the remainder into two halves, and she still had five cookies left.

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Lesson 2: Linear and Nonlinear Expressions in x

Exit Ticket

Write each of the following statements as a mathematical expression. State whether the expression is a linear or nonlinear expression in x .

1. Seven subtracted from five times a number, and then the difference added to nine times a number

2. Three times a number subtracted from the product of fifteen and the reciprocal of a number

3. Half of the sum of two and a number multiplied by itself three times

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Lesson 4: Solving a Linear Equation

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1. Guess a number for x that would make the equation true. Check your solution.

$$5x - 2 = 8$$

2. Use the properties of equality to solve the equation $7x - 4 + x = 12$. State which property justifies your first step and why you chose it. Check your solution.

3. Use the properties of equality to solve the equation $3x + 2 - x = 11x + 9$. State which property justifies your first step and why you chose it. Check your solution.

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Lesson 6: Solutions of a Linear Equation

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Transform the equation if necessary, and then solve to find the value of x that makes the equation true.

1. $5x - (x + 3) = \frac{1}{3}(9x + 18) - 5$

2. $5(3x + 9) - 2x = 15x - 2(x - 5)$

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Lesson 7: Classification of Solutions

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Give a brief explanation as to what kind of solution(s) you expect the following linear equations to have. Transform the equations into a simpler form if necessary.

1. $3(6x + 8) = 24 + 18x$

2. $12(x + 8) = 11x - 5$

3. $5x - 8 = 11 - 7x + 12x$

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Lesson 8: Linear Equations in Disguise

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Solve the following equations for x .

1.
$$\frac{5x - 8}{3} = \frac{11x - 9}{5}$$

2.
$$\frac{x + 11}{7} = \frac{2x + 1}{-8}$$

3.
$$\frac{-x - 2}{-4} = \frac{3x + 6}{2}$$

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Lesson 9: An Application of Linear Equations

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1. Rewrite the equation that would represent the sum in the fifth step of the Facebook problem:

$$S_5 = 7 + 7 \cdot 5 + 7 \cdot 5^2 + 7 \cdot 5^3 + 7 \cdot 5^4.$$

2. The sum of four consecutive integers is 74. Write an equation, and solve to find the numbers.

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Lesson 11: Constant Rate

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Vicky reads at a constant rate. She can read 5 pages in 9 minutes. We want to know how many pages, p , Vicky can read after t minutes.

- Write a linear equation in two variables that represents the number of pages Vicky reads in any given time interval.
- Complete the table below. Use a calculator, and round answers to the tenths place.

t (time in minutes)	Linear Equation:	p (pages read)
0		
20		
40		
60		

- About how long would it take Vicky to read 25 pages? Explain.

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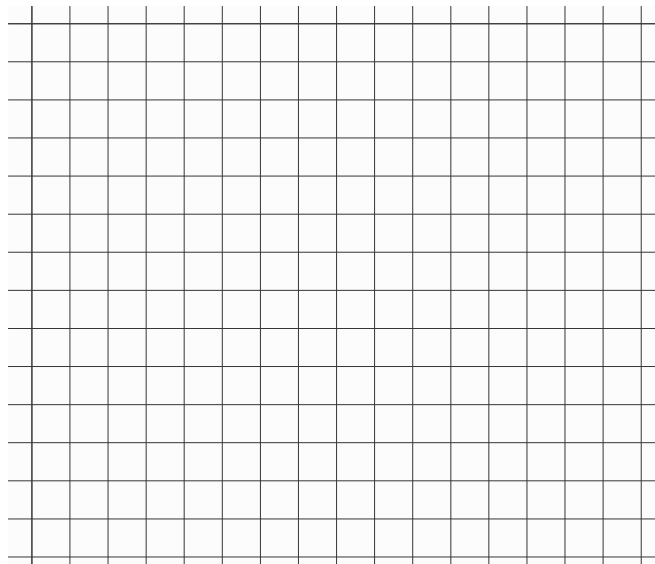
Lesson 12: Linear Equations in Two Variables

Exit Ticket

1. Is the point $(1, 3)$ a solution to the linear equation $5x - 9y = 32$? Explain.

2. Find three solutions for the linear equation $4x - 3y = 1$, and plot the solutions as points on a coordinate plane.

x	Linear Equation: $4x - 3y = 1$	y



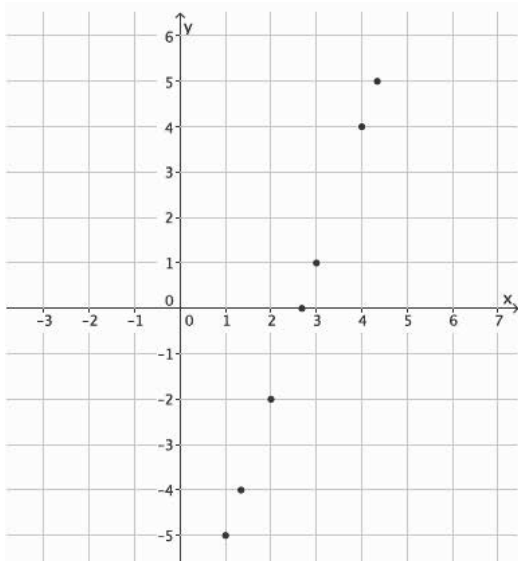
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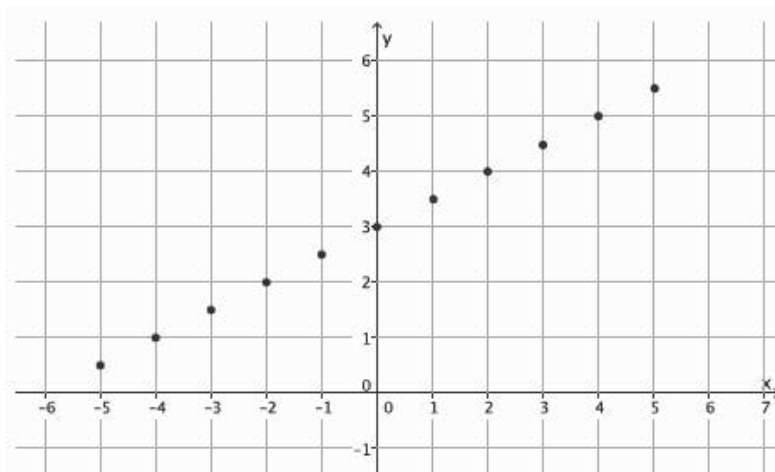
Lesson 13: The Graph of a Linear Equation in Two Variables

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1. Ethan found solutions to the linear equation $3x - y = 8$ and graphed them. What shape is the graph of the linear equation taking?



2. Could the following points be on the graph of $-x + 2y = 5$?



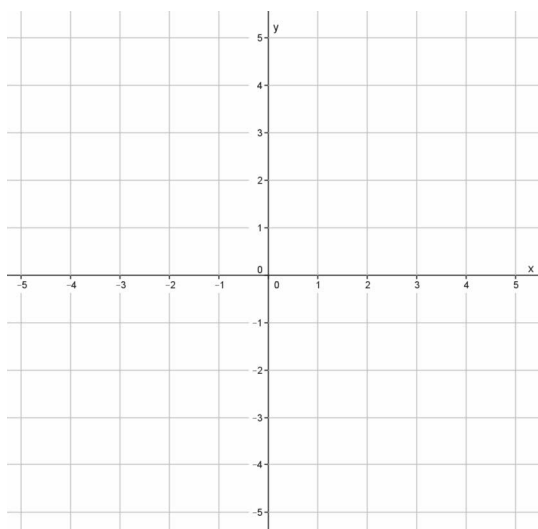
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Lesson 14: The Graph of a Linear Equation—Horizontal and Vertical Lines

Exit Ticket

1. Graph the linear equation $ax + by = c$, where $a = 0$, $b = 1$, and $c = 1.5$.



2. Graph the linear equation $ax + by = c$, where $a = 1$, $b = 0$, and $c = -\frac{5}{2}$.

