Algebra I

Unit 3A Test Stations Review

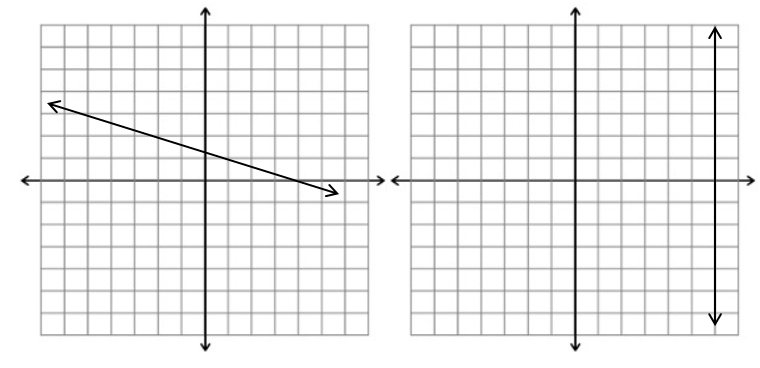
Station 1 – SLOPE/RATE OF CHANGE

EASY

HARD

1. What is the slope of the line that passes through the

points (-5, 2) and (7, -4)?

1. What is the slope of the line below?
2.  B.
3. What is the rate of change?

|  |  |
| --- | --- |
| Number of pounds | Total Cost |
| 4 | 6 |
| 6 | 9 |
| 8 | 12 |
| 10 | 15 |
| 12 | 18 |

1. Determine whether the following scenarios describe a positive, negative, zero, or undefined slope:
2. In the first quarter of the football game NVHS had 7 points. In the third quarter NVHS had 28 points.
3. In January Sally weighed 160 pounds. In June, she weighed 140 pounds.

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Station 2 – POINT-SLOPE

EASY

HARD

1. Graph y + 2 = 3(x – 1)



1. Graph y – 4 = -2(x + 3)



1. Create four flashcards, one for each of the formulas in unit 2.

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Station 3 – SLOPE INTERCEPT

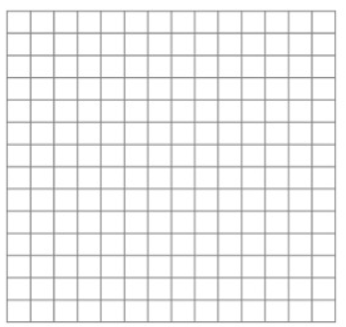
1. Identify the slope and y-intercept of the equation y = -7x+1. Label both answers.

EASY

HARD

1. Write the equation of the line with an intercept of -5 and a

slope of 4 in slope-intercept form.

1. Graph the equation y = -1/2x – 3
2. You have $350 in your bank account and spend $40 per week.
3. In six weeks, how much will you have left in your account?
4. Define two variables and write a linear equation to model the situation.
5. Graph the equation that you wrote. Be sure to label your x and y axis and consider your units.
6. How many weeks will it take for your account to have a zero balance?

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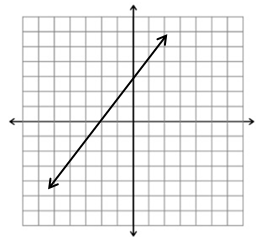
Station 4 – STANDARD FORM & HORIZONTAL/VERTICAL LINES

EASY

HARD

1. Graph the equation
2. -5x + 2y = 10 B. -2x – 4y = -12



1. What would the y-intercept be if the x-intercept moved

two units to the left?

1. Graph the equations

A. x = -4 B. y = 5

1. Write an equation of a vertical line.

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Station 5 – COLLINEAR-PARALLEL-INTERSECTING

EASY

HARD

1. Are the following points collinear? Explain your answer.
2. (-1,-11) (2,7) (4,19) B. (-8,-1) (4,2) (8,5)
3. Are the following linear representations parallel or intersecting? Explain.

a) b)

y = 2x - 4

Are the following linear representations parallel or intersecting?

|  |  |
| --- | --- |
| x | y |
| -6 | 2 |
| -3 | 0 |
| 0 | -2 |
| 3 | -4 |
| 6 | -6 |

y = -2/3x + 5

1. Are the following linear equations parallel or intersecting?

y = 4x + 6 y – 3 = ¼ (x – 2)

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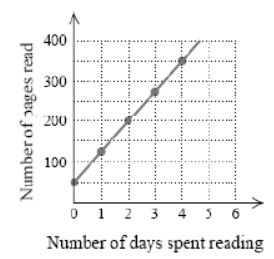
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Station 6 – APPLICATION

EASY

HARD

1. Write an equation of a line that has a positive slope.
2. Write an equation of a line that has a zero slope.



A. What is the rate of change and what does it mean in the context of this example?

1. What is the y-intercept and what does it mean in the

context of this example?

1. Write an equation that best models the graph.