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| 1. What is the equation of the line below?slope: \_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_x-intercept: \_\_\_\_\_\_zero: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. The graph below graphs value of an item decreasing per month.slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y- intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 3. Find the slope, x-intercept, and y-intercepts given the slope-intercept form of a linear equation : \_\_\_\_\_b: \_\_\_\_\_\_x-int./zero: \_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 4.slope: \_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_zero: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5.slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  | 6. Find the slope and y-intercept given the point-slope form of a linear equation slope: \_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_Where is the x-intercept?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Domain: \_\_\_\_\_\_\_\_\_\_\_\_Range: \_\_\_\_\_\_\_\_\_\_\_\_\_ |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_/\_\_\_\_/\_\_\_\_ Period \_\_\_\_\_

**Key Features**

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| 7. The table shows how much money Amy has remaining on a gift card, *b*, after purchasing *n* coffees. n stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_b stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 8.slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9. Find the slope and y-intercept of the equation Solve for y:   m: \_\_\_\_\_b: \_\_\_\_\_\_x-int./Zero: \_\_\_\_\_\_\_ |
| 10.a. slope:b. y-intercept:c. x-intercept:d. zero: | 11. A weightlifter is adding weights of equal weight to a bar. The table below shows the total amount he will lift, including the bar, depending on the number of plates he uses.

|  |  |
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| **# of plates** | **Total weight** |
| 2 | 100 |
| 4 | 150 |
| 5 | 175 |
| 6 | 200 |

slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: ??? | 12. What is the zero of ? 1st solve for y:  2nd Graph the equationThen find the zero! |

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|  13. slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 14.slope: \_\_\_\_\_\_\_\_\_\_Describe slope in words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_y-intercept: \_\_\_\_\_\_ Meaning of the y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_x-intercept: \_\_\_\_\_\_Meaning of the zero:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 15. The cost of renting a car for 1 day at Cars Plus is $15 plus 20 cents per mile driven. This relationship can be represented by In a graph of the cost of a car rental, what does the *initial* cost of renting a car, $15, represent? 1. The *x*-intercept
2. The *y*-intercept
3. The slope
4. The point of intersection
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| 16.m = \_\_\_\_\_\_ b= \_\_\_\_\_\_\_ zero= \_\_\_\_\_\_ | 17. Jason has $25 and spends $4 per week. What is the meaning of the x-intercept?  | 18.A. Slope and its meaning:b. Y-intercept and its meaning:c. X-intercept and its meaning: |
| 19. What is the zero of the function?  |