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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.   |  |  | | --- | --- | | **# 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 equation  Then 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 |
| 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? |