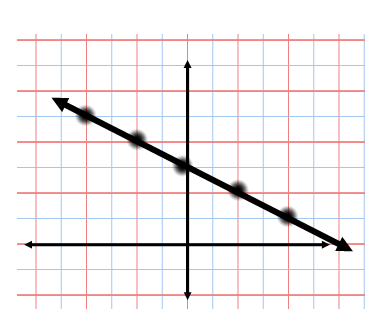
name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_ Week x Week #28A: 4/13-4/17 2015

Solve each problem. Make sure that you show ALL WORK involved in solving the problem in order to get full credit.

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| Write the equation of the line graphed above in:  Point-Slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Slope-Intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | A carnival game involves striking a lever that forces a weight up a tube. If the weight reaches 20 feet to ring the bell, the contestant wins a prize.  The equation  h = -16t2 + 32t + 3  gives the height of  the weight if the initial  velocity is 32 ft/sec. Find the maximum height of the weight. Will a prize be won?  Write the equation of the axis of symmetry, and find the coordinates of the vertex of the graph. Identify the vertex as a maximum or a minimum.  y = 2x2 + 12x – 11 | Which is a solution of y = 3x + 2?  a) (-1, 0) b) (0, 3)  c) d) (1, 5)  *Which number is between and*  *a) b)*  *c) d)*  The cost of prints from an online photo processor is given by  y = 29.99 + 0.13p. $29.99 is the cost of the membership, and p is the number of 4-inch by 6-inch prints. What does the slope represent?  a) cost of the membership  b) cost of the membership and  1 print  c) cost per print  d) number of prints |

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| The points (2, 4) and (x, 8) lie on a line with a slope of . Find the value of x.  The tens digit of a two-digit number is one less than three times the units digit. If the digitis are reversed, the new number is 45 less than the original number. Find the number. | Write a simplified expression to represent the area of the shaded region.  A line passes through the point (2,-6) and is parallel to the line that has the equation 6x – 2y = -1. Write the equation of this line in:  Point-Slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Slope-Intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | *Simplify each expression:*  *• (2k)4(-k2)(-d)2*  *• (8ut3)2(u2t)2*  *•*  *•*  *• (xy)-2(30x5)(xy-3)* |

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