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 equationh = -16t2 + 32t + 3gives the height ofthe 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) $(\frac{1}{3}, 1)$ d) (1, 5)*Which number is between* $-3.7 $*and* $-3\frac{3}{5}$*a)* $-3\frac{4}{5}$ *b)* $-3.71$*c)* $-3.65$ *d)* $-3.59$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 membershipb) cost of the membership and 1 printc) cost per printd) number of prints |

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| The points (2, 4) and (x, 8) lie on a line with a slope of $-\frac{1}{2}$ . 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**•* $\left(\frac{4m^{4}t^{-9}}{mt^{-2}}\right)^{-3}$*•* $\frac{4.5×10^{-8}}{2.5×10^{-3}}$*• (xy)-2(30x5)(xy-3)* |

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