name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_ Week x Week #23M1: 2/24 – 3/3, 2017

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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| http://collaborative.org/flvs/educator_algebra1_v10_gs/module04/imagemod04/04_06_04a_01.jpg  Write the equation for the line that is perpendicular to the line graphed above and goes through the point (-1,-1).  Slope-intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Point-slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Two angles are supplementary. The measure of one of these angles is 12o less than one third the measure of the other. What is the measure of each angle?  *If…*  *, find the value of* . | *Simplify.* |

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| Mrs. Sergeant’s refrigerator is broken and she needs a repairman to fix it. The repairman charges $92 for parts and $32.50 per hour for labor. Write an equation to find the total charge, c, for the repairs if the repairman works for h hours.  If the total bill comes to $140.75, how many hours did it take the repairman to fix the refrigerator at Mrs. Sergeant’s house?  What will be the total charge for the repairs if the repairman works for hours? | Write the equation of a line that goes through the points (-4,4) and (2,-11) in slope-intercept form.  If -3x + y = -3 and 4x + 2y = 14, find the value of x.  Put the following numbers in order from least to greatest: | | *Solve, graph, and write in interval notation:*  ***-3 ≤ 7c + 4 < 18***  Determine the amount of an investment if $250 is invested at an interest rate of 10.3% compounded quarterly for 40 years. | |
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