name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_\_\_ Week x Week #27M1: 3/24 – 3/30, 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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| Write the equation for the line graphed above in all three forms:Slope-intercept \_\_\_\_\_\_\_\_\_\_\_\_\_\_Point-slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **🡨 *Use the previous graph:***Write the equation for the line that is perpendicular to the line graphed here 🡨 and goes through the point (-1,1).Slope-intercept \_\_\_\_\_\_\_\_\_\_\_\_Point-slope \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Standard \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Find the product:(m2 – 5m + 4)(m2 + 7m – 3) | Mr. Childs received a job as a teacher with a starting salary of $34,000. According to his contract, he will receive a 1.5% increase in his salary every year. How much will Mr. Childs earn in 7 years?If h(t) = -16t2 + 95t + 6, find:* h(3)

If g(x) = 4x2, find:* 2[g(2)] + 7
* 3[g(m)]
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| *Simplify.* * $-\frac{1}{5}\left(5m^{2}+15m-40\right)+ \frac{1}{2}(-8m^{2}-6m-30)$
* $\frac{(3^{2})^{-1}m^{-1}n^{-2}}{3^{-3}m^{0}n^{3}}$
* $(-4c^{3}c^{-3})^{2}(-c^{4}d^{3})^{3}$

Two camels pass each other in the Solve:desert, going in opposite directions. $-\frac{2+w}{8}=-\frac{w-4}{24}$The rate of one camel is 3 km/h faster than the rate of the other. Four hours later, the camels are 68 km apart. Find the rate of the faster camel. | *Factor each expression:**• n2 – 28n + 75**• x2 – 14xy + 13y2**• p2 – 8p – 20**• a2 – 18ab – 40b2**• 75a5b3 + 30a3b5 – 60ab7**• 20b4 – 45c2**• 3w6 – 9w4 + 3w2* |
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