name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_\_\_ Week x Week #25: 3/10 – 3/17, 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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| What is the slope of the line graphed above?What is the y-intercept of the linegraphed above?Write the slope-intercept equation of the line graphed above. | **A jet airliner travels 3420 miles in 6 hours. What is the plane’s flying rate in miles per hour?****Write an equation to represent the total miles, *d*, that the plane can fly for any number of hours, *t*.****Estimate how many hours it will take for the airliner to fly 6500 miles.****Estimate how far the plane will fly if it is in the air for three and a half hours.** | http://mathbits.com/MathBits/StudentResources/GraphPaper/10x10.gifGraph the equation:2x + y = -6Find the slope of the line that passes through (-4,2) and (-2,10). |

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| Write each number in scientific notation:* 12,500,000
* 0.0000000423

Determine the scale factor for the following dilation: | Solve:$$6\left(5m-3\right)= \frac{1}{3}(24m+12)$$Write the slope-intercept equation of a line that has a slope of 2 and a y-intercept of 4.Write the equation of a line that passes through the points (3,1) and (2,4). | *Senica is locked out of his house. The only open window is on the second floor, which is 28 feet above the ground. There is a bush along the edge of the house, so he places the neighbor’s ladder 10 feet from the house.* *To the nearest foot, what length of ladder does he need to reach the window?*http://www.pbs.org/wgbh/nova/proof/puzzle/images/house.gifSimplify:6d – 4(3d + 5) + 3(d – 10) |
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