name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_\_\_ Week x Week #27: 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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| 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 hot air balloon rises 350 feet in 5 minutes. What is the balloon’s ascent rate in feet per minute?Write an equation to represent the total feet, *d*, that the balloon will rise for any number of minutes, *m*.How many minutes will it take for the balloon to ascend 3500 feet?How high will the balloon ascend after 27 minutes? | Triangle ABC has vertices (4,2), (0,6), and (3,-2). * Graph the pre-image on the coordinate plane above.
* What will the coordinates of the vertices be after the image is rotated 180o around the origin?
* Graph the image on the coordinate plane above.
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| In the table below, y is a linear function of x.What is the slope of the line?What is the value of y when x = 0?What is the equation of the line that crosses these points?What is the value of y when x = 10?

|  |  |
| --- | --- |
| x | y |
| 3 | 7 |
| 5 | -3 |
| 7 | -13 |

 | Write the following linear equation in slope-intercept form:3x – 6y = 10NO CALCULATOR!!!!What is the sum of all the integers between $\sqrt{20}$ and $\sqrt{82}$.Hannah is buying a skirt that originally costs $45.50. It is on sale for 30% off the original price. What is the sale price of the skirt? | *What is the distance between the points (0, 3) and (2, 0)? (Use the graph to help you find the distance!!!)*🡨There is a 7% sales tax on the skirt that Hannah wants to buy. What will the final price of the skirt be, including tax? |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |
| --- | --- |
| x | y |
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What is the slope of the line?What is the value of y when x = 0?What is the equation of the line that crossed these points?What is the value of y when x = 10? | Write the following linear equation in slope-intercept form:3x – 6y = 10NO CALCULATOR!!!!What is the sum of all the integers between $\sqrt{20}$ and $\sqrt{82}$.Hannah is buying a skirt that originally costs $45.50. It is on sale for 30% off the original price. What is the sale price of the skirt? | *What is the distance between the points (0, 3) and (2, 0)? (Use the graph to help you find the distance!!!)*🡨There is a 7% sales tax on the skirt that Hannah wants to buy. What will the final price of the skirt be, including tax? |