Math 8 Weekly Math #11 Due Friday 2/9/18

Make sure to show all work on a separate sheet of paper. Full credit will only be given if work is turned in with all answers.

<table>
<tr>
<td>1. Solve for x:

$5x = 3(x-1) + (3 + 2x)$</td>
<td>5. Solve for x:

$20x + 5x - 20 = 21x + 4$</td>
<td>3. Ms. Easty has a square garden with an area of 144 ft^2. What is the measure of each side?</td>
<td>4. What is the distance between the smallest whole number greater than $\sqrt{60}$ and the greatest whole less than the $\sqrt{15}$</td>
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<td>10. Given the relation:
{(0,4)(-2,3)(-4,0)(-2,-3)(-2,3)(4,0)(2,3)}

Is this a function? Why or why not?</td>
<td>7. $-\sqrt{81}$ would be classified as what type of number? (Rational, Irrational, Integer, Whole, or Natural)</td>
<td>15. Find the equation of a line whose slope is $^1/_3$ and passes through (-6,2)</td>
<td>9. Identify the domain of the following function:
{(1,0)(-3,-3)(-5,2)(2,1)}</td>
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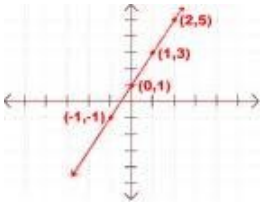
<td>11. What is the slope of the line?
 
</td>
<td>12. Use the table to determine the slope and y-intercept of the line. Write the equation of the line represented in the table.
<table>
<tr><td>X</td><td>Y</td></tr>
<tr><td>-2</td><td>-4</td></tr>
<tr><td>-1</td><td>-3.5</td></tr>
<tr><td>0</td><td>-3</td></tr>
<tr><td>1</td><td>-2.5</td></tr>
</table></td>
<td>13. Determine the slope and y-intercept of the line $y = -^1/_2x - 8$

m = _____

B = _____</td>
<td>14. Write the equation of a line with an undefined slope, passing through the point (-4,7).</td>
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<tr>
<td>4. Solve the system using your graphing calculator
Y = -(⅔)x - 2
Y = -(8/3)x + 4</td>
<td>4. Solve the system using substitution.
X = y -1
Y = -2x</td>
<td>4. Solve the system by substitution
Y = 2x + 4
2x - y = -4</td>
<td>4. The sum of two numbers is 45. One number is 4 times the other number. Use a system of equations to find both numbers.</td>
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