Week 20 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework: Monday, January 23, 2017**

***TRY YOUR BEST! SHOW ALL OF YOUR WORK! ☺☺ NO WORK! NO CREDIT!***

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| **Match the system of linear equations with the corresponding graph.**  **Use the graph to estimate the solution. Check your solution.**  **1.** *y* 3*x* −2  *y* 4*x* −3 | In which function table do all of the points (*x*, *y*) lie on the line that has a slope of 3 and a *y*-intercept of 2? |
| Which representation corresponds to the equation y = 3x + 1? | |

**Homework: Tuesday, January 24, 2017**

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| **Solve the system of linear equations by graphing.**  **a.** *y* −2*x* 1 **b.** -18*x +* 3*y* −9  *y* 2*x* −3 8*x -* 2*y* 2 | Sally’s Lawn Service uses the equation,  *y* = 15*x* + 25 to calculate the cost, *y,* to work on a customer’s lawn for *x* number of hours. Ray’s Lawn Service uses the table below to calculate the cost to work on a customer’s lawn. If a customer requires 3 hours of lawn work, which lawn service charges less and by how much less?  Ray’s Lawn Service (Table)    A. Sam’s Lawn Service charges $3.50 less for 3 hours of work.  B. Ron’s Lawn Service charges $3.50 less for 3 hours of work.  C. Sam’s Lawn Service charges $4 less for 3 hours of work.  D. Ron’s Lawn Service charges $4 less for 3 hours of work. |

**Homework: Wednesday, January 25, 2017**

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| What is the value of *t* in the equation  3(*t* − 4) = 2*t* + 1? | A hexagon has two sides that are equal. The two equal sides are 2 inches longer than each of the four other sides. The perimeter of the hexagon is 22 inches. What is the measure of one of the shorter sides? |
| Solve the system of linear equations by substitution. Check your solution.  *y* *x* 2  *y* 3*x* −4 | Simplify: |

**Homework: Thursday, January 26, 2017**

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| (FB.4) For a school group, a skating rink charges a flat fee of $50 for skates for the students, plus a charge per student to use the skating rink.   * For 40 students, the skating rink charges $180. * For 75 students, the skating rink charges $293.75.   *Which equation represents the amount the skating rink charges for* ***x*** *students?*  A. *y* = 3.25*x* + 35 B. *y* = 3.25*x* + 50  C. *y* = 4.50*x* + 35 D. *y* = 4.50*x* + 50 | Solve the system of linear equations by substitution. Check your solution.  **a.** *y* 3*x* 4  *x* *y* 8 |
| The area of a square ceiling tile is 576 square inches. What is the length of one edge of the tile? | Solve the system of linear equations by substitution. Check your solution.  **b.** −2*x* 3*y* 9  *y* 2*x* 7 |