***SYSTEMS OF EQUATIONS – EXAM REVIEW #5***

*Match each vocabulary term with its* ***definition****, then with the* ***type of lines*** *which form its graph.*

**\_\_\_\_\_, \_\_\_\_\_ 1.** inconsistent **A.** at least one solution **W.** parallel lines

**\_\_\_\_\_, \_\_\_\_\_ 2.** consistent **B.** no solutions **X.** intersecting lines

**\_\_\_\_\_, \_\_\_\_\_ 3.** independent **C.** infinite solutions **Y.** identical lines

**\_\_\_\_\_, \_\_\_\_\_ 4.** dependent **D.** exactly one solution **Z.** parallel *or* intersecting lines

***Graph*** *each system and determine the* ***number of solutions*** *that it has. If it has one solution,* ***name it****.*

 **5.** *y* = *x* – 2 **6.** *y* = 2*x* – 1

 *y* = x + 2 *y* = $-\frac{1}{2}$ *x* + 4

*Solve the following system of equations using substitution. Don’t forget to find x AND y!*

 **7.** *y* = 3*x* **8.** *x* = *y* – 7

 2*x* + *y* = 15 *x* + 8*y* = 2

*Solve the following system of equations using elimination. Don’t forget to find x AND y!*

 **9.** 3*x* + 4*y* = 2 **10.** 7*x* + 4*y* = 2

 4*x* – 4*y* = 12 7*x* + 2*y* = 8

**11. MULTIPLE CHOICE** If *y* = 5*x* – 3 and 3*x* – *y* = –1, what is the value of *y*? *(Psst… show your work!)*

 **A** 2 **B** –1 **C** 7 **D** –8

***…OVER FOR MORE! 🡪***

*Graph the system of inequalities. Don’t forget to shade, and choose your line style carefully!*

**12.** *y* ≥ –*x* + 2 **13.** *y* < 2*x* + 4

 *y* < 2*x* – 2 *y* ≥ *x* + 1