AMDM – Unit 8 Assessment Review

**Equations of Lines Notes**  Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Slope Formula: |
| (Problems 1 – 3) Directions: Find the slope of the line passing through the following points.  |
| 1. (3, 2) and (5, -6)
 | 1. (4,-3) and (1,2)
 |  3)( 1, 4) and (2, 1) |

**4)** **Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

a) Slope = 5, y – intercept = -3 b) Slope = 0, y – intercept = 2

**5)** **Write the slope intercept form of the equation of the line through the given point with the given slope.**

a) through (5, 3) slope = $\frac{4}{5}$ b) through (-3, -2) slope = $-\frac{2}{3}$

**6) Write the slope intercept form of the equation of the line through the given points.**

a) through: (-5, -5) and (1, -3) b) through: (4, 3) and (1, 2)

**Change the following equations from slope – intercept form to standard form. REMEMBER: The coefficient A should NOT be NEGATIVE! NO FRACTIONS!!**

7) $y=\frac{5}{4}x-5$ 8)$y=\frac{1}{2}x+3$

9) Solve by taking the square root.



10) Solve by taking the square root.



11) Solve by the zero-product property.



12) Solve by the zero-product property.

 