

Name: \_\_\_\_\_

**Math 1 : GCF and Solving Polynomials**

**Factor each polynomial.**

1)  $10x^2 + 40x$

2)  $15x - 35x^2$

3)  $16y^2 + 8y$

**Solve each equation.**

4)  $y = a(a - 9)$

5)  $y = (4x - 7)(x + 5)$

6)  $y = 2x(x + 5)$

**Factor then solve. (Remember to change y to 0 or each equal to 0.)**

7)  $8x^2 - 12x = y$

8)  $15x^2 = 60x$

9)  $14x^2 + 49x = y$

10)  $x^2 - 5x = y$

11)  $3x^2 - 9x = y$

12)  $10x^2 = 10x$