

Name \_\_\_\_\_  
Mr. Schlansky

Date \_\_\_\_\_  
Algebra II

## *Polynomial Equations with Rational Solutions*

1.  $y^2 - 5y - 6 = 0$

2.  $x^2 + 4x = 0$

3.  $a^2 - 8a = 20$

4.  $3x^2 = 48$

5.  $n^2 = 3n + 18$

6.  $2x^2 + 3x = 5$

7.  $4x^2 = 64$

8.  $4x^2 + 4x - 3 = 0$

$$9. 8m^2 + 20m = 12$$

$$10. 3x^2 + 3x - 6 = 0$$

$$11. 4x^2 - 12x = 7$$

$$12. x^3 + 10x^2 - 9x - 90 = 0$$

$$13. 2x^4 - 6x^3 = 20x^2$$

$$14. 27x^3 + 36x^2 - 12x = 16$$

$$15. 0 = x^4 - 10x^2 + 9$$

$$16. 0 = x^4 - 4x^3 - 9x^2 + 36x$$