Algebra 1 - Douglas Anderson Name_____

Solving Quadratics - The Zero Product Property

Date_____ Period____

Class Examples: Solve each equation by factoring.

1) $(m-3)(m+3)=0$

2) $(3n-2)(n-1)=0$

3) $n^2-6n=0$

4) $m^2+3m-28=0$

5) $x^2-3x-6=4$

6) $r^2+5r-20=4$

7) $2b^2 + 1 = -3b$

8) $8x^2 + 18x + 5 = 2x + 5x^2$

HOMEWORK: Solve each equation by factoring.

9) $(2x + 1)(2x + 5) = 0$

10) $(7x - 5)(x - 4) = 0$

11) $r^2 - 6r + 5 = 0$

12) $n^2 + n - 6 = 0$

13) $x^2 - 2x = 0$

14) $a^2 - 64 = 0$

15) $n^2 + 4n - 18 = -6$

16) $n^2 - 6n - 5 = -5$

17) $2x^2 + 9x = -9$

18) $4v^2 + 4v = 3$

19) $3m^2 - 7m + 3 = 3m$

20) $4x^2 - 7x = 2x^2 - 6$