

Quadratic Practice

Date _____ Period _____

Solve each equation by factoring.

1) $8x^2 = 32x$

2) $x^2 = -11x - 28$

3) $v^2 = 56 - v$

4) $r^2 + 35 = 12r$

5) $n^2 + 11n = -28$

Solve each equation by taking square roots.

6) $8n^2 + 9 = 281$

7) $9p^2 + 5 = -179$

8) $6k^2 - 3 = -88$

9) $3n^2 + 6 = 45$

10) $5 - 8p^2 = -467$

Solve each equation with the quadratic formula.

11) $5n^2 - 9n = 72$

12) $4x^2 - 10 = -6x$

13) $4n^2 = 8n - 4$

14) $8x^2 = -5 + 10x$

15) $3n^2 - 12 = -5n$

Solve each equation by completing the square.

16) $n^2 + 14n + 50 = 10$

17) $3m^2 - 12m - 83 = -3$

18) $2p^2 - 4p - 80 = -10$

19) $5n^2 + 20n - 18 = 7$

20) $4a^2 + 8a - 5 = -8$