

Solving Quadratics: Factoring & Square Root

Date _____ DUE: _____

Solve each equation by taking square roots.

1) $2a^2 = 86$

2) $4r^2 = 236$

3) $6b^2 = 504$

4) $n^2 = 67$

5) $p^2 = 54$

6) $n^2 = 64$

7) $x^2 = 91$

8) $k^2 = 67$

9) $r^2 = 29$

Solve each equation by factoring.

10) $(k + 8)(3k + 8) = 0$

11) $7m^2 + 91m + 294 = 0$

12) $6m^2 - 54 = 0$

13) $63x^2 + 126x + 35 = 0$

14) $112p^2 + 312p + 80 = 0$

15) $2k^2 + 16k + 6 = -8$

16) $3n^2 - 37n + 119 = -7 + 2n$

17) $14r^2 - 280 = 77r$