

Solving Quadratics Multiple Methods

Date _____ Period _____

Solve each equation by factoring.

1) $b^2 + 6b + 8 = 0$

2) $x^2 + 2x - 8 = 0$

3) $5n^2 - 42n + 16 = 0$

4) $7a^2 + 6a - 16 = 0$

Solve each equation by taking square roots.

5) $2x^2 = 146$

6) $3x^2 + 1 = 127$

7) $(x - 7)^2 + 5 = 86$

8) $4(x + 3)^2 - 2 = 22$

Solve each equation by completing the square.

9) $a^2 + 6a - 70 = 0$

10) $n^2 - 18n + 14 = 0$

11) $n^2 - 8n - 5 = -10$

12) $b^2 - 10b - 106 = -10$