

Solving Quadratics by Completing the Square

Date _____ Period _____

Solve each equation by completing the square. Show all work to receive full credit.

1) $n^2 + 20n + 96 = 0$

2) $v^2 - 4v - 16 = 0$

3) $x^2 + 10x - 24 = 0$

4) $9x^2 + 18x - 79 = 0$

5) $x^2 - 20x + 51 = 0$

6) $3x^2 + 12x - 96 = 0$

7) $3v^2 - 24 = 6v$

8) $6m^2 + 12m = 52$

9) $9n^2 + 5n = 90$

10) $10r^2 - 14r = 48$