

8.3 Solving Quadratics - Completing The Square

Period _____

Solve each equation by completing the square.

1) $x^2 + 6x - 53 = 4$

2) $x^2 + 2x - 15 = -7$

3) $m^2 - 6m - 7 = 9$

4) $n^2 - 2n - 94 = -7$

5) $v^2 + 10v + 3 = -6$

6) $p^2 - 10p + 30 = 9$

7) $b^2 + 16b + 58 = -2$

8) $r^2 + 12r - 50 = -5$

11) $10x^2 - 20x - 2 = 6$

12) $6n^2 + 12n - 98 = -8$

13) $7n^2 + 14n - 87 = 3$

Regents Question:

25 Solve $5(x - 2) \leq 3x + 20$ algebraically.

26 Given $g(x) = x^3 + 2x^2 - x$, evaluate $g(-3)$.