Name_____

12-05-23-T8 solve quadratic by completing the square.

Solve each equation by completing the square. Do odds and evens.

1) $x^2 + 10x + 9 = 0$

2) $n^2 - 10n - 24 = 0$

3) $b^2 - 6b + 4 = 0$

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

5) $a^2 - 3a + 2 = 0$

6) $p^2 + 5p - 5 = 0$

7) $k^2 - 5 = -4k$

8) $p^2 - 3 = 2p$

9) $x^2 = -1 - 4x$

10) $n^2 = 6n + 6$

11) $r^2 + 3r - 5 = 1 + 2r$

12) $-m^2 - 5m - 2 = 2 - 2m^2$

Answers to 12-05-23-T8 solve quadratic by completing the square.

1) $\{-1, -9\}$
3) $\{3 + \sqrt{5}, 3 - \sqrt{5}\}$
5) $\{2, 1\}$
7) $\{1, -5\}$
9) $\{-2 + \sqrt{3}, -2 - \sqrt{3}\}$
11) $\{2, -3\}$