

## 12-05-29-T8 Completing the square

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

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

2)  $x^2 - 8x - 25 = 0$

3)  $n^2 - 2n - 9 = 0$

4)  $k^2 + 2k - 8 = 0$

5)  $p^2 - 3p - 4 = 0$

6)  $x^2 - x - 2 = 0$

7)  $n^2 = 4n + 6$

8)  $m^2 - 6 = -4m$

9)  $r^2 = 5 + 4r$

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

11)  $n^2 + 6n + 7 = n + 1$

12)  $b^2 + b = 6$

## Answers to 12-05-29-T8 Completing the square

- 1)  $\{9, 1\}$                       2)  $\{4 + \sqrt{41}, 4 - \sqrt{41}\}$     3)  $\{1 + \sqrt{10}, 1 - \sqrt{10}\}$     4)  $\{2, -4\}$   
5)  $\{4, -1\}$                       6)  $\{2, -1\}$                       7)  $\{2 + \sqrt{10}, 2 - \sqrt{10}\}$   
8)  $\{-2 + \sqrt{10}, -2 - \sqrt{10}\}$     9)  $\{5, -1\}$                       10)  $\{2, -4\}$   
11)  $\{-2, -3\}$                     12)  $\{2, -3\}$