

Complete the Square Practice

Name:

Block:

Seat:

Example

$$\begin{aligned}x^2 + 6x &= 10 \\(x + 3)^2 &= 10 + 9 \\x &= -3 \pm \sqrt{19}\end{aligned}$$

3.

$$x^2 - 4x + 53 = 0$$

1.

$$x^2 - 2x + 25 = 0$$

4.

$$x^2 + 4\sqrt{2}x + 17 = 0$$

2.

$$x^2 - 6x + 25 = 0$$

5.

$$x^2 - 5x - 10 = 0$$

6.

$$x^2 - 8x - 72 = 0$$

9.

$$x^2 - 50x + 102 = 0$$

7.

$$x^2 + 12x - 8 = 0$$

10.

$$x^2 - 72x - 2929 = 0$$

8.

$$x^2 - 7x + 2 = 0$$

Answers:

$$\begin{aligned} & (1) \sqrt{1} \pm 1 \quad (2) \sqrt{4} \pm 2 \quad (3) \sqrt{9} \pm 3 \quad (4) \sqrt{16} \pm 4 \quad (5) \sqrt{25} \pm 5 \quad (6) \sqrt{36} \pm 6 \quad (7) \sqrt{49} \pm 7 \quad (8) \sqrt{64} \pm 8 \quad (9) \sqrt{81} \pm 9 \quad (10) \sqrt{100} \pm 10 \\ & (11) \sqrt{121} \pm 11 \quad (12) \sqrt{144} \pm 12 \quad (13) \sqrt{169} \pm 13 \quad (14) \sqrt{196} \pm 14 \quad (15) \sqrt{225} \pm 15 \quad (16) \sqrt{256} \pm 16 \quad (17) \sqrt{289} \pm 17 \quad (18) \sqrt{324} \pm 18 \quad (19) \sqrt{361} \pm 19 \quad (20) \sqrt{400} \pm 20 \end{aligned}$$