

## Completing the Square Exit Quiz

**Part A Instructions:** Choose the option that completes the sentence or answers the question.

1. A trinomial is a polynomial having:

- a. Two terms
- b. Three terms
- c. Five terms
- d. Four terms

2. In completing squares method, we:

- a. Add a constant term on only one side of the equation
- b. Add a constant term on both sides of the equation
- c. Subtract a constant term on only one side of the equation
- d. None of these

3. The solution of  $x^2 - 12x + 5 = 0$  is:

- a.  $x = 12, -5$
- b.  $x = 6 + \sqrt{31}$
- c.  $x = 6 - \sqrt{31}$
- d. Both b and c

4. To complete the square in  $x^2 - \frac{1}{2}x$  we will add:

- a.  $\frac{1}{4}$
- b.  $\frac{1}{16}$
- c.  $\frac{1}{8}$
- d. 8

**Part B Instructions:** Answer the question below.

5. Solve the equation  $x^2 + 10x = 75$  by completing the square.

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**Part B Instructions:** Answer the question below.

5. Solve the equation  $x^2 + 10x = 75$  by completing the square.

Here the term to add is  $\left(\frac{10}{2}\right)^2 = 5^2 = 25$

$$x^2 + 10x + 25 = 75 + 25$$

$$(x + 5)^2 = 100$$

$$x + 5 = \pm 10$$

$$x + 5 = 10 \quad ; \quad x + 5 = -10$$

$$x = 5 \quad ; \quad x = -15$$