

**Answer on Question#37668 - Math – Algebra**

$$x^4 - 27x^2 + 50 = 0;$$

$$x^2 = t \quad (t \geq 0)$$

$$t^2 - 27t + 50 = 0$$

$$t = \frac{27 \pm \sqrt{27^2 - 4 \cdot 50}}{2} = \frac{27 \pm 23}{2}$$

$$t = 25 \text{ or } t = 2$$

$$x^2 = t \rightarrow x = \pm\sqrt{t}$$

So,  $x = 5$ ,  $x = -5$ ,  $x = \sqrt{2}$ ,  $x = -\sqrt{2}$ .

**Answer:**  $5, -5, \sqrt{2}, -\sqrt{2}$ .