

Q) The number of real solutions of the equation, $x^2 - |x| - 12 = 0$ is :

Solution:

$$|x|^2 - |x| - 12 = 0$$

$$\Rightarrow (|x| + 3)(|x| - 4) = 0$$

$$\Rightarrow |x| = 4$$

$$\Rightarrow x = \pm 2$$