

$$(x^2 + 9)^{1/2} = 5$$

Solution:

$$\sqrt{x^2 + 9} = 5$$

$$x^2 + 9 = 5^2$$

$$x^2 = 16$$

$$x = \pm\sqrt{16}$$

$$x = \pm 4$$

Answer:

There are two solutions: $x = 4, x = -4$.