

1. Solve by the square root property.

a) $4x^2 + 49 = 0$

b) $\left(x + \frac{2}{5}\right)^2 = \frac{7}{25}$

2. Solve by completing the square.

$x^2 + 6x - 7 = 0$

3. Solve by completing the square. (Hint: first divide both sides by 3)

$$3x^2 - 6x + 2 = 0$$

4. A rectangular park is 4 miles long and 2 miles wide. How long is a pedestrian route that runs diagonally across the park? (Hint: Draw a picture of the park, which is a rectangle.)

Q: A man leaves home and, after making three left turns, he ends up back at home, and finds two masked men waiting for him. What is happening?