

Quadratic equation word problems worksheet - Answers

Problem 1 :

Difference between a number and its positive square root is 12. Find the number.

Solution :

Let "x" be the required number.

Its positive square root is \sqrt{x}

Given : Difference between x and $\sqrt{x} = 12$

$$x - \sqrt{x} = 12$$

$$x - 12 = \sqrt{x}$$

$$(x-12)^2 = x$$

$$x^2 - 24x + 144 = x$$

$$x^2 - 25x + 144 = 0$$

$$(x - 9)(x-16) = 0$$

$$x = 9 \text{ or } x = 16$$

$x = 9$ does not satisfy the condition given in the question.

Hence the required number is 16.

Problem 2 :

A piece of iron rod costs \$60. If the rod was 2 meter shorter and each meter costs \$1 more, the cost would remain unchanged. What is the length of the rod?

Solution :

Let "x" be the length of the given rod.

Then the length of the rod 2 meter shorter is (x-2) and the total cost of both the rods is \$60 (because cost would remain unchanged)

Cost of one meter of the given rod = $60/x$

Cost of one meter of the rod which is 2 meter shorter = $60/(x-2)$

From the question, $60/(x-2) = (60/x) + 1$

$$60/(x-2) = (60+x)/x$$

$$60x = (x-2)(60+x)$$

$$60x = x^2 + 58x - 120$$

Quadratic Equation Word Problems And Answers

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Quadratic Equation Word Problems And Answers:

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