

Quadratic Equations by Factoring

Word Problems

- ① 5 times of a positive integer is less than twice it's square by 3. Find the integer?

- ② The square of a number equals 9 times that number. Find the number.

- ③ A rectangle has a width that is 5 feet less than the length. The area of the rectangle is 126 square feet. Find the dimensions of the rectangle.

- ④ The length of one leg of a right triangle is 2 feet longer than the other leg. The length of the hypotenuse is 10 feet. Find the lengths of the 2 legs.

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Answers

- ① 5 times of a positive integer is less than twice it's square by 3. Find the integer?

3

- ② The square of a number equals 9 times that number. Find the number.

0 or 9

- ③ A rectangle has a width that is 5 feet less than the length. The area of the rectangle is 126 square feet. Find the dimensions of the rectangle.

14 feet, 9 feet

- ④ The length of one leg of a right triangle is 2 feet longer than the other leg. The length of the hypotenuse is 10 feet. Find the lengths of the 2 legs.

6 feet, 8 feet