Answer on Question #63369 – Math – Algebra

Question

Find two numbers whose sum is 25 and one number is 10 more than twice the other.

Solution

Let the first number be

$$X.$$

Since the sum of two numbers is

$$25,$$

the second number is

$$(25 - X).$$

The first number is 10 more than twice the other, which means

$$(25 - X) = 2X + 10.$$

Solving the equation

$$15 = 3X;$$
$$X = 5.$$

Hence

$$(25 - X) = 20.$$

Answer: the numbers are 5 and 20.