

Answer on Question #47560 – Math – Algebra

Question.

A painter charges 200 dollars plus 25 dollars per can of paint used. Write a function rule to represent the total charge for a certain number of cans of paint.

Solution.

It's very simple linear function. We can see that 200 dollars is the constant and does not depend on the number of cans of paint. And the total charge is linear proportional to the number of cans of paint.

So, our function has the following form:

$$y = kx + b$$

y is the total charge;

x is the number of cans of paint;

$$k = 25;$$

$$b = 200.$$

Thus, the required function has the following form (Fig.1.):

$$y = 25x + 200$$

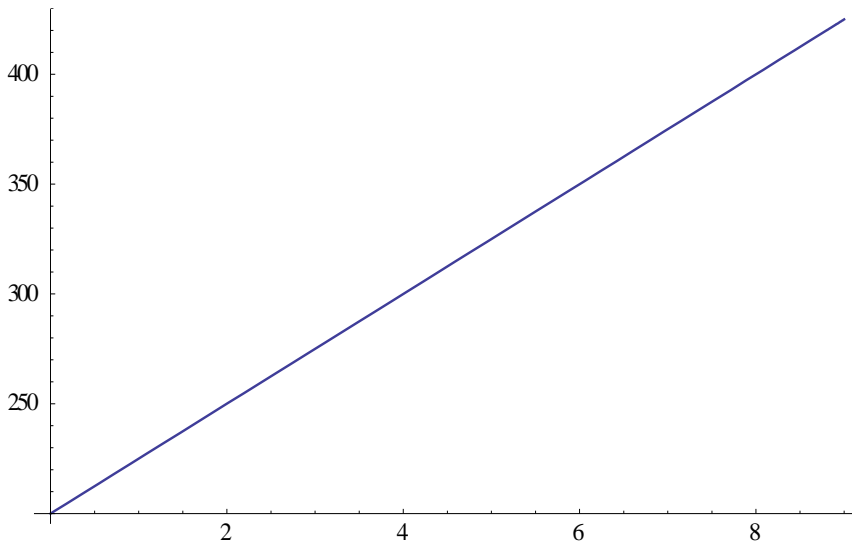


Fig.1.

Answer.

$$y = 25x + 200$$