Question

Whenever two quantities are directly proportional to each other, the ratio between the two quantities is a

constant. In our case lets take that first variable - x_1 and second is y_1. In some moment of time we will

have that: $\dfrac{x_1}{y_1} = c_1$. And if our first variable changes in time let take that in some moment of time (which is

different from our first moment of time) it will be equal to x_2 while the second variable still stay the same -

y_1. Now we will have: $\dfrac{x_2}{y_1} = c_2$ and $x_1 \neq x_2$. So, we easy can see that $c_1 \neq c_2$. And that's why such case

can not be a proportional relationship.

Answer: it can't be a proportional relationship.