## Answer on Question #73848 - Math - Calculus

## Question

Write y=t+6/t and x=6/(t)(1/2) in rectangular form?

## **Solution**

$$y = t + \frac{6}{t}, \qquad x = \frac{6}{(t)(\frac{1}{2})}$$
$$x = \frac{6}{(t)(\frac{1}{2})} = \frac{12}{t} \to t = \frac{12}{x}$$
$$y = \frac{12}{x} + \frac{6x}{12} = \frac{24 + x^2}{2x}$$

**Answer:** 

$$y = \frac{24 + x^2}{2x}$$