# Answer on Question \#73848 - Math - Calculus 

## Question

Write $\mathrm{y}=\mathrm{t}+6 / \mathrm{t}$ and $\mathrm{x}=6 /(\mathrm{t})(1 / 2)$ in rectangular form?

## Solution

$$
\begin{aligned}
& y=t+\frac{6}{t}, \quad x=\frac{6}{(t)\left(\frac{1}{2}\right)} \\
& x=\frac{6}{(t)\left(\frac{1}{2}\right)}=\frac{12}{t} \rightarrow t=\frac{12}{x} \\
& y=\frac{12}{x}+\frac{6 x}{12}=\frac{24+x^{2}}{2 x}
\end{aligned}
$$

## Answer:

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

