You should know that 1 cubic cm of water has a mass of 1 gram. What’s the mass of 1 cubic meter of water?

A. $10 \, \text{g}$
B. $10^2 \, \text{g}$
C. $10^4 \, \text{g}$
D. $10^6 \, \text{g}$
E. 1 kg
F. 10 kg
G. 100 kg
H. 1000 kg
I. None of these
A dollar and a penny

A student makes the following argument:
"I can prove a dollar equals a penny. Since a dime (10 cents) is one-tenth of a dollar, I can write:

\[10\,\text{œ} = 0.1\,\$\]

Square both sides of the equation. Since squares of equals are equal,

\[100\,\text{œ} = 0.01\,\$\].

Since 100 œ = 1 $ and 0.01 $ = 1 œ it follows that 1 $ = 1 œ."

What's wrong with the argument?
On which side of the $x$-$y$ graph is the initial time ($t = 0$)?

1. On the left.
2. On the right.
3. There is not enough information given to decide.
4. I have no clue.
Sketch what you think $x-t$ and $y-t$ plots would look like.