

Answer on Question #66004 – Math – Calculus

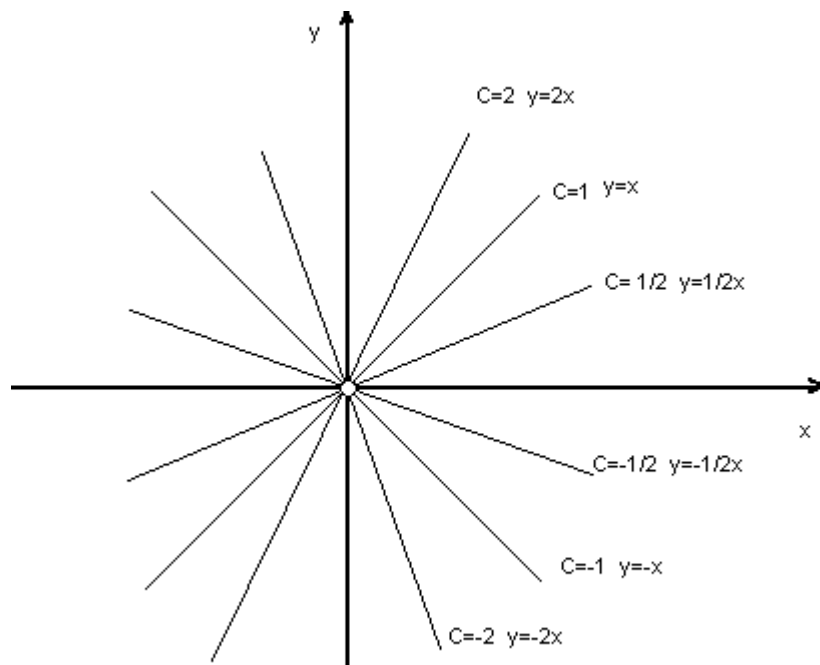
Question

True/false. justify your answer. The level curves of $z = y / x$ are hyperbolas.

Solution

The level curves of $z = \frac{y}{x}$ are not hyperbolas.

The level curves of $z = \frac{y}{x}$ are straight lines $y = Cx$ for each $x \neq 0$, where C is a real number.



Answer: FALSE.