

Calculus Worksheet: Rate of Change (2)

The cross section of the container on the right is an isosceles trapezoid whose angle, lower base are given below. The length of the container is 1 meter. If water pours into the container at the rate of $10 \text{ cm}^3 / \text{minute}$, find the rate $\frac{dh}{dt}$ of the height h of water in the container when $h = 1 \text{ cm}$.

