MATH 30, 4/8/2020: CORONA QUIZ 7

Related Rates. The radius and height of a circular cylinder are changing with time in such a way that the volume remains constant at 1000 cubic centimeters. If, at a certain time, the radius is 4 centimeters and is increasing at a rate of $\frac{1}{2}$ centimeter per second, what is the rate of change of the height?