

Math 1571

Special Assignment 1  
(10 points)

Name:

A candle and a vertical rod with length 10 cm stand 50 cm apart on a table top. If the candle is burning at the rate of 0.1 cm/min, how fast is the length of the rod's shadow changing when the flame is 11 cm above the table top? (You may assume that the table top is quite large.) *Show your work.*