

MATH 101-08 (082)
QUIZ # 6

NAME: ID #:

Q1. The area of a circle is increasing at the rate of $\pi \text{ cm}^2/\text{min}$. At what rate is the radius increasing when the area is $9\pi \text{ cm}^2$?

Q2. The three dimensions of a box are increasing at the rate of 5 cm/min, 7 cm/min, and 2 cm/min. At what rate is the volume increasing at the moment when the box is a cube with edge 10 cm?