

MATH 101-05 (171)
QUIZ # 5

NAME:

ID. #:

Q1. A right cylindrical tank is filled with water. The tank stands upright has radius 20 cm . How fast does the height of water in the tank drop when the water is being drained at $25\text{ cm}^3/\text{sec}$? ($V = \pi r^2 h$)

Q2. The Area of a square is increasing at a rate of $20\text{ m}^2/h$. At a certain instant, the area is 49 m^2 . What is the rate of change of the perimeter of the square at that instant?