

Name: \_\_\_\_\_

MATH 307

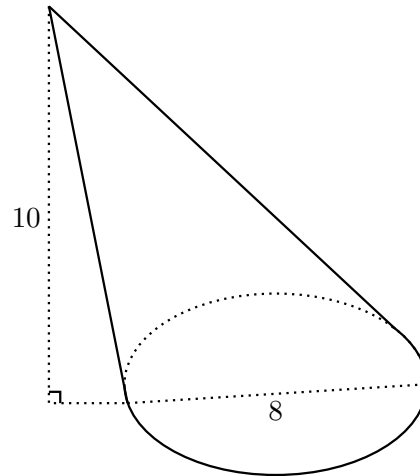
Spring 2023

HW 12: Due 04/14

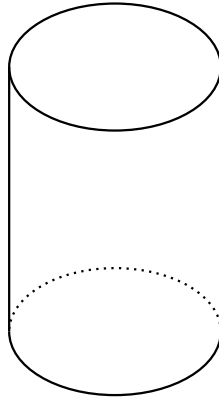
*"I was very slow in maths, geometry I actually enjoyed."*

*–Liam Neeson*

**Problem 1.** (10pt) Find the volume and surface area of the right circular cone shown below.



**Problem 2.** (10pt) Find the volume and surface area of the right circular cylinder with diameter 3 and height 10 shown below.



**Problem 3.** (10pt) Find the volume and surface area of the cube shown below. Also, find the length of the ‘diagonal’ of the cube, i.e. the length from one corner to another.

