

Homework Set 6

DUE: NOV 5, 2018 (AT THE BEGINNING OF CLASS)

To be handed in*Please write your solutions to Problem 1 a)-d) on only 1 sheet of paper.*

1. All edges of a 3-dimensional cube are expanding at a rate of 6 cm/s.
 - a) How fast is its volume changing when each edge is 2 cm long?
 - b) How fast is its volume changing when each edge is 10 cm long?
 - c) How fast is its surface area changing when each edge is 2 cm long?
 - d) How fast is its surface area changing when each edge is 10 cm long?

2. Textbook (5th edition) Section 3.7, Exercises 13, 16, 22, 23, 24, 25, 29, 31, 33, 46