

MAC 2312 EXAM II (Chap. 6) TOPICS (9th Ed.)
(75 pts.)

6.1 ① Area between two curves. (10)

6.2 ② Volumes by slicing; disks and washers (10)

6.3 ③ Volumes by shells (10)

6.4 ④ Arc length (2 problems) (20)

Know all 3 types

a) perfect square

b) not a perfect square

c) parametric form (p. 698)

6.6 ⑤ Work

a) Hooke's Law (10)

b) cone or cylinder (10)

⑥ Proof (my choice) (5)

a) volume of a shell = 2π [ave. radius] · [height] · [thickness]

b) volume of a sphere by disk method