

The final exam for Math 13900 will take place from 8:00 – 10:00 am on Thursday, May 4, 2017 in RAWL 1086.

The exam will have 18 questions. Ten multiple-choice questions will be worth 7 points each. Eight open-answer questions will be worth varying points. Partial credit will be given on the open-answer questions only. Six questions will be from lessons 30-35. The remaining questions are from the first 29 lessons.

Helpful hint: the answer “None of the above” is sometimes used, but not often.

No calculators will be allowed. It is good to arrive 15 minutes early. Of course, bring your photo ID as well as your ruler, protractor, and compass.

The following is a list of recommended problems from sections 25.1-26.2 of the Supplementary Learning Exercises at the end of each section in the text. These are the sections covered after exam 3.

Page	Section	Problem numbers
577	25.1	8bc, 9, 10b, 12abc
584	25.2	3bdghi, 6ace, 8bc
596	26.1	1bc, 2abe, 3ab, 6A
603	26.2	5

Volume<sub>sphere</sub> =  $\frac{4}{3}\pi r^3$       Surface Area<sub>sphere</sub> =  $4\pi r^2$   
 These formulas will be provided on the cover of the final exam:

$$\text{Volume}_{\text{cone}} = \frac{1}{3}\pi r^2 h$$

$$\text{Volume}_{\text{cylinder}} = \pi r^2 h \quad \text{Surface Area}_{\text{cylinder}} = 2\pi r^2 + 2\pi rh$$