

MATH 383 | Spring 2010 | SKETCHPAD ASSIGNMENT

Use Sketchpad, available on all computers in Bannow 124, to do the following exercises from Chapter 4. Wherever you see "script" you should use the words "custom tool." See the Help menu for how to build custom tools. Save your documents as LASTNAME# and email them to me and to yourself. For example, Kristi will send me 10 files:

Byrnes2
Byrnes4
Byrnes5
Byrnes7add
Byrnes7subtract
Byrnes7invert
Byrnes8
Byrnes15
Byrnes16
Byrnes19

because these are the exercises she's supposed to do.

RULES:

- 1) For 4.1 through 4.5, use only the commands INTERSECTION, CIRCLE BY CENTER AND POINT, SEGMENT, RAY, and LINE. This mimics using a compass and straightedge.
- 2) After 4.5, you can use any tool from the Construct menu EXCEPT for POINT ON OBJECT. I will send you a NONCOLLAPSIBLE COMPASS tool (that is, a tool that mimics Lemma 3.3.3) that you may find useful for many of these exercises.
- 3) You are welcome to talk to each other (and me) about how to do these exercises, but do it outside of the lab. I don't want you to write the Tools together. One person at a computer only, please, and no talking in the lab with each other while you're building your tools. The point is to solidify these concepts in your head before the final, and that won't happen if four of you cluster in front of one machine and write the tools together.

ASSIGNED QUESTIONS:

- 4.1 :: Joe, Jackie, Danielle
4.2 :: Kristi, Ally, Janet
4.3 :: Julia, Mike, Alex, Bryan
4.4 :: All
4.5 :: All
4.7 (add) :: All
4.7 (subtract) :: All
4.7 (multiply) :: Julia, Mike, Alex, Bryan, Ally

4.7 (invert) :: Kristi, Joe, Janet, Jackie, Danielle

4.8 :: All

4.15 :: All

4.16 :: Kristi, Ally, Janet

4.17 :: Julia, Mike, Alex, Bryan

4.18 :: Joe, Jackie, Danielle

4.19 :: All