Sketchpad Gallery Assignments

Each sketch is to be provided by pdf (import them to Word docs and print as a pdf) by 10 am on the designated day – email them to me. Please do not hand them in on paper – I will post the pdfs online in the Gallery. Each assignment is worth a maximum of 10 points. The Gallery work is 10% of your grade.

I am available to meet you or talk by phone to get you started by appointment only. Use email to make an appointment.

Introductions:

1. Sketch a snowman, name him and label him with his name and your name.

Chapter 2

1. Sketch figure 2.6 (page 62). Measure the angles with Sketchpad and display them on the page appropriately. Note that angles in geometry are restricted to measures between 0 and 180 and, in this text, that is “strictly between”. We don’t have straight angles. Now in Trigonometry you get angles that measure all sorts of degrees, but not in Geometry.

Answer 8.b (page 68) in a text box.

2. Try your hand at Problem 12, page 69. Instead of colors – which might not pdf well –

label the points “red” or “green”.

3. Show the answer for Problem 4, p. 100 in a labeled sketch.

4A. Show an example of the information in Problem 9, page 113

4B. Answer Problem 8, page 118

Chapter 3

1A Illustrate – not prove! – Problem 17, page 127.

1B Show that the Pythagorean Theorem does not hold for a right triangle with legs length 3 cm and 4 cm.

2. Sketch a Taxicab hexagon and show the measurements with TEXTBOXES. Do not use the distance calculator – it’s coded for Euclidean distances! See Problem 17, page 139.

3. Work out Problem 17, page 150

4. Work out the details of Problem 14, page 172. Be sure to answer each question.

5. Write and illustrate Problem 9, page 181

6. Find the construction for the incircle on the internet! Make a triangle with its incircle and include the construction instructions in your drawing. See page 206, Problem 14.

Chapter 4

1A. Problem 27, page 284

1B. Sketch the 3 circles…illustrate the words, no prove necessary, Problem 29, page 284