CS130 Winter 2013 Homework 2

January 14, 2013

Name:

Student ID:

1. What are typical Gamma values for CRT displays?

2. Come up with an algorithm that determines whether two line segments in 2D space intersect each other and where the point of intersection is if they do.

3. What are the major steps in the graphics pipeline?

4. In the DDA algorithm from lab 2, a line's slope is compared to 1 to distinguish between cases. What's special about 1? Why not 2?

5. (True/False) Using the alpha channel allows you to represent more unique colors.

6. (Multiple Choice) The midpoint (or Bresenham) algorithm for rasterizing lines is optimized relative to the DDA algorithm in that it A) avoids a round operation B) is incremental C) uses only integer arithmetic D) all of the above E) A and B only