This problem set has 6 questions, for a total of 100 points. Answer the questions below and mark your answers in the spaces provided. Please provide details on how your answer was calculated.

Your Name: Yeury Calva

- 1. Assume a color display using 8 bits for each of the primary colors (red, green, blue) per pixel and a frame size of 1280×1024 .
 - (a) [5 points] What is the minimum size in bytes of the frame buffer to store a frame?

(b) [5 points] How long would it take, at a minimum, for the frame to be sent over a 100 Mbit/s network?

Looking back at the table from slides -> 1 mbit/s = 10 6 bit/s So Answering the question low Mbit/s = 100 x 10 bit/s = 108 bit/e Size of frame = 3,932,160 XY = 31,457, 2800 bit After looking up equation for time => time = size After looking up equation = 31,457,880 bits 10 511/5

= (0.31457285