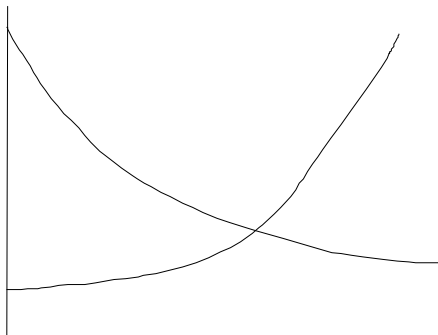


0. Print your name: \_\_\_\_\_

1. Find the average value of  $y = x^{1/2}$  over  $[1, 4]$ . Sketch a graph representing it.

2. Indicate graphically the equilibrium price and the consumer and producer surpluses there, given that the demand and supply curves are given by the graph. Be sure to label the axes and each of the curves:



3. Set up an integral for the present value of an income stream of a constant  $S$  dollars per year for 5 years, assuming a continuous annual growth rate of 7%. Do not compute the integral.