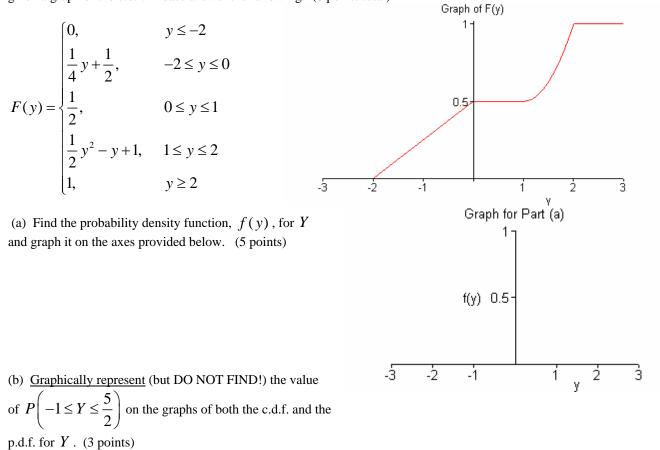


II. Suppose the random variable Y has the cumulative distribution function F given below. You are also given a graph of the c.d.f. Please answer the following: (8 points total)



III. A discrete random variable, say X, has the moment generating function $M(t) = \frac{1}{4} + \frac{3}{8}e^{t} + \frac{1}{8}e^{2t} + \frac{1}{4}e^{3t}$. Find P(X = 2) and E[X]. Clearly indicate your answers. (6 points)