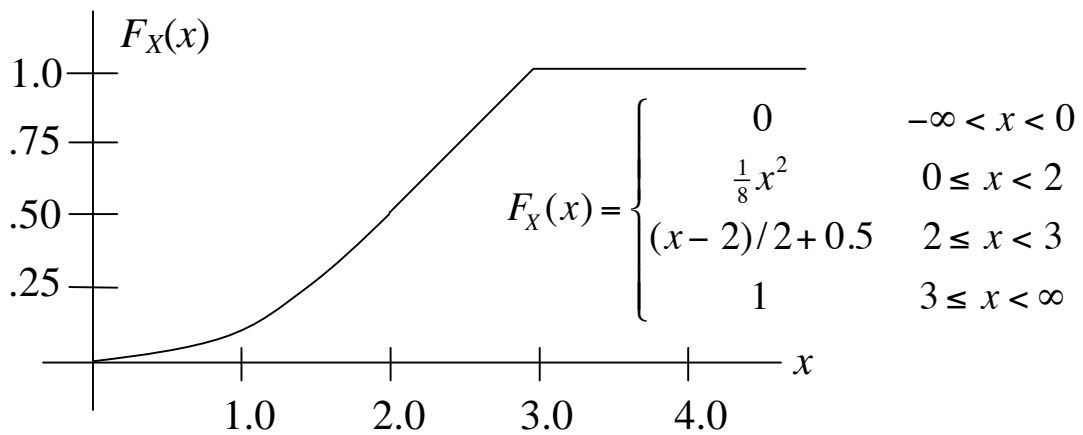


Quiz 5

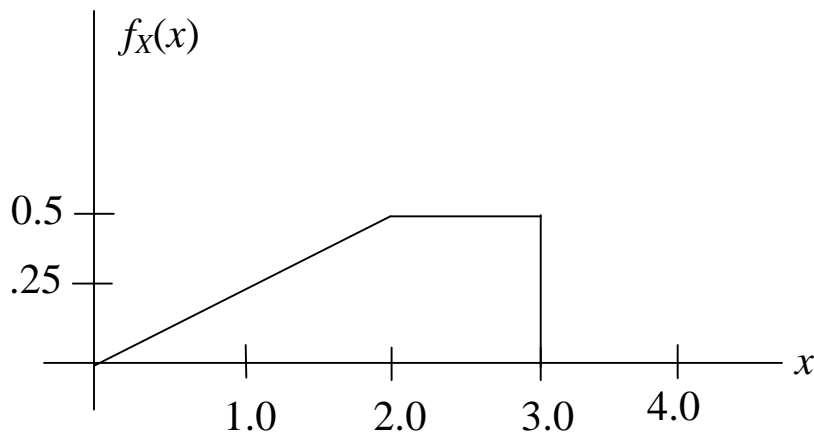
ECEn 370

Name: _____ Key _____

1. Consider the probability distribution function (PDF) plotted below for a random variable X :



- a) Sketch the corresponding probability distribution function (pdf) and label the vertical axis.



- b) Calculate $P[2 \leq X \leq 4]$. $= \int_2^4 f_X(x) dx = (3-2)(0.5) + (4-3)(0) = 0.5$