

Probability & Statistics
Quiz #2
Total Marks: 10 marks (CLO-2)

3.21 Consider the density function

$$f(x) = \begin{cases} k\sqrt{x}, & 0 < x < 1, \\ 0, & \text{elsewhere.} \end{cases}$$

- (a) Evaluate k .
- (b) Find $F(x)$ and use it to evaluate

$$P(0.3 < X < 0.6).$$