c)
$$P(3.5 \le X \le 4.5) = (.4625 + .5375)/2 = (.5)$$

 $P(4.5 \le X) = (.5.375 + .5.75)/2 = .55625$

2) a)
$$P(X < 0) = \frac{1}{10} \int_{0}^{\infty} dx - 5 < x < 0$$

 $\frac{x}{10} from 5 + 5 = 0$ so then $F(x) = \frac{1}{10}x$
 $F(0) - F(-5) = 0 - \frac{1}{10} = \frac{1}{10}$

b)
$$F(x) = \frac{x}{10}$$

 $F(2.5) = \frac{.2.5}{10}$ (.25 - -,2.5) = (.5)

()
$$F(3) - F(2) = \frac{3}{10} - \frac{2}{10} = \frac{1}{10}$$

$$\frac{10}{10} - \frac{1}{10} = \frac{4}{10}$$

4) C)
$$\frac{1}{200} \times \frac{1}{8} \times \frac{1}{200} = \frac{1}{2}$$

For $\frac{1}{200} + \frac{1}{200} = \frac{1}{2}$
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