

Solutions

$$X \sim \text{Exp}(1)$$

$$\text{Find } P(X \leq 0.8) = \underline{0.5507}$$

$$\text{Find } P(X \geq 0.63) = \underline{0.5326}$$

$$\text{Find } P(X < 1.1) = \underline{0.6671}$$

$$\text{Find } P(X > 1.07) = \underline{0.3430}$$

$$\text{Find } P(0.03 < X < 0.82) = \underline{0.5300}$$

$$X \sim \text{Exp}(2.8)$$

$$\text{Find } P(X \leq 2.0) = \underline{0.9963}$$

$$\text{Find } P(X \geq 0.26) = \underline{0.4829}$$

$$\text{Find } P(X < 0.97) = \underline{0.9339}$$

$$\text{Find } P(X > 0.05) = \underline{0.8694}$$

$$\text{Find } P(0.10 < X < 0.41) = \underline{0.4385}$$

$$X \sim \text{Exp}(0.4)$$

$$\text{Find } P(X \leq 4.0) = \underline{0.7981}$$

$$\text{Find } P(X \geq 1.24) = \underline{0.6090}$$

$$\text{Find } P(X < 0.99) = \underline{0.3270}$$

$$\text{Find } P(X > 3.62) = \underline{0.2350}$$

$$\text{Find } P(0.37 < X < 1.75) = \underline{0.3658}$$

$$X \sim \text{Exp}(0.06)$$

$$\text{Find } P(X \leq 8.3) = \underline{0.3923}$$

$$\text{Find } P(X \geq 10.6) = \underline{0.5294}$$

$$\text{Find } P(X < 12.4) = \underline{0.5245}$$

$$\text{Find } P(X > 16.8) = \underline{0.3649}$$

$$\text{Find } P(7.0 < X < 14.0) = \underline{0.2253}$$

$$X \sim \text{Exp}(1.37)$$

$$\text{Find } P(X \leq 2.3) = \underline{0.9572}$$

$$\text{Find } P(X \geq 0.74) = \underline{0.3628}$$

$$\text{Find } P(X < 1.29) = \underline{0.8292}$$

$$\text{Find } P(X > 2.16) = \underline{0.0519}$$

$$\text{Find } P(0.45 < X < 1.45) = \underline{0.4027}$$