

05-04-2019

$$1) P(\{3\}) = F(3^+) - F(3^-) = 0.5 - 0.305 = 0.195,$$

$$2) P(\{6\} \cup \{3\}) = 1 - 0.9 + 0.5 - 0.305 = 0.295,$$

$$\begin{aligned} 3) P([1.24, 6.09] \cup \{3\}) &= F(6.09) - F(1.24) + \cancel{0.195} \\ &= 1 - 0.17 \cancel{+ 0.195} \\ &= 0.83, \end{aligned}$$