

Ex 2 de la fiche

1. $f(x) = \frac{1}{11-1} = \frac{1}{10}$.

2. $P(3 < X < 5) = \frac{5-3}{11-1} = \frac{2}{10}$

Ou : $P(3 < X < 5) = P(X < 5) - P(X < 3) = \frac{5-1}{11-1} - \frac{3-1}{11-1} = \frac{4}{10} - \frac{2}{10} = \frac{2}{10}$.

3. $P(X > 8) = \frac{11-8}{11-1} = \frac{3}{10}$

Ou : $P(X > 8) = 1 - P(X < 8) = 1 - \frac{8-1}{11-1} = 1 - \frac{7}{10} = \frac{3}{10}$

4. $E(X) = \frac{1+11}{2} = 6$. Le temps moyen d'attente est de 6 minutes.