



$$P(X=2) = \frac{1}{12}$$

$$P(X=2) = \frac{11}{12} - \left(\frac{1}{2} + \frac{6}{4} \right)$$

$$P(X=1) = \frac{1}{2} + \frac{6}{4} - \frac{1}{4} - \frac{6}{4}$$

$$P(X=1) = \frac{1}{4}$$

$$\frac{6}{4} + \frac{1}{4} + \frac{11}{12} - \left(\frac{1}{2} + \frac{6}{4} - \frac{1}{4} \right) + \frac{1}{12} = 1$$

$$\frac{6}{4} + \frac{1}{4} - \frac{1}{2} - \frac{6}{4} + \frac{1}{4} = 0$$

$$P(X=3) = \frac{1}{12}$$

$$P(X=2) = \frac{11}{12} - \frac{1}{2} - \frac{6}{4} + \frac{1}{4} = \frac{2}{3} - \frac{6}{4}$$

$$P(X=1) = \frac{1}{4}$$

$$P(X=0) = \frac{6}{4}$$