

3.5 (a) $c = 1/30$ since $1 = \sum_{x=0}^3 c(x^2 + 4) = 30c$.

(b) $c = 1/10$ since

$$1 = \sum_{x=0}^3 c \binom{2}{x} \binom{3}{3-x} = c \left[\binom{2}{0} \binom{3}{3} + \binom{2}{1} \binom{3}{2} + \binom{2}{2} \binom{3}{1} \right] = 10c.$$

3.6 (a) $P(X > 200) = \int_{200}^{\infty} \frac{20000}{(x+100)^3} dx = -\frac{10000}{(x+100)^2} \Big|_{200}^{\infty} = \frac{1}{9}.$

(b) $P(80 < X < 200) = \int_{80}^{200} \frac{20000}{(x+100)^3} dx = -\frac{10000}{(x+100)^2} \Big|_{80}^{200} = \frac{1000}{6001} \approx 0.1667.$

3.7 (a) $P(X < 1.2) = \int_0^1 x dx + \int_1^{1.2} (2-x) dx = \frac{x^2}{2} \Big|_0^1 + \left(2x - \frac{x^2}{2} \right) \Big|_1^{1.2} = 0.68.$

(b) $P(0.5 < X < 1) = \int_{0.5}^1 x dx = \frac{x^2}{2} \Big|_{0.5}^1 = 0.375.$

3.8 Referring to the sample space in Exercise 3.3 and making use of the fact that $P(H) = 2/3$ and $P(T) = 1/3$, we have

$$P(W = -3) = P(TTT) = (1/3)^3 = 1/27;$$

$$P(W = -1) = P(HTT) + P(THT) + P(TTH) = 3(2/3)(1/3)^2 = 2/9;$$

$$P(W = 1) = P(HHT) + P(HTH) + P(THH) = 3(2/3)^2(1/3) = 4/9;$$

$$P(W = 3) = P(HHH) = (2/3)^3 = 8/27;$$

The probability distribution for W is then

$$\begin{array}{c|cccc} w & -3 & -1 & 1 & 3 \\ \hline P(W = w) & 1/27 & 2/9 & 4/9 & 8/27 \end{array}$$

3.9 (a) $P(0 < X < 1) = \int_0^1 \frac{2(x+2)}{5} dx = \frac{(x+2)^2}{5} \Big|_0^1 = 1.$

(b) $P(1/4 < X < 1/2) = \int_{1/4}^{1/2} \frac{2(x+2)}{5} dx = \frac{(x+2)^2}{5} \Big|_{1/4}^{1/2} = 19/80.$

3.10 The die can land in 6 different ways each with probability $1/6$. Therefore, $f(x) = \frac{1}{6}$, for $x = 1, 2, \dots, 6$.

3.11 We can select x defective sets from 2, and $3-x$ good sets from 5 in $\binom{2}{x} \binom{5}{3-x}$ ways. A random selection of 3 from 7 sets can be made in $\binom{7}{3}$ ways. Therefore,

$$f(x) = \frac{\binom{2}{x} \binom{5}{3-x}}{\binom{7}{3}}, \quad x = 0, 1, 2.$$

In tabular form

$$\begin{array}{c|ccc} x & 0 & 1 & 2 \\ \hline f(x) & 2/7 & 4/7 & 1/7 \end{array}$$

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