Assignment -2 in LATEX

Muzaan Mohammed Faizel A P EE22BTECH11036

Question 10.13.1.26: There are four men and six women on the city council. If one council member is selected for a committee at random, how likely is it that it is a woman? Solution:

GENDER	STRENGTH
MALE	4
FEMALE	6

TABLE 0: Council distribution

$$X = \begin{cases} 0, & \text{if member is a man} \\ 1, & \text{if member is a woman} \end{cases}$$
 (1)

With reference to Table 0

$$p_X(1) = \frac{6}{6+4} = \frac{6}{10} \tag{2}$$

The desired probability is:

$$p_X(1) = \frac{6}{10} \tag{3}$$