Assignment-10.13.1.20

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When a die is thrown, the probability of getting an odd number less than 3.

Solution: Let the random variable X be defined as:

Random Variable	Values	Description
X	$1 \le X \le 6$	Number appeared on a roll

$$p_X(k) = \begin{cases} \frac{1}{6} & \text{if } 1 \le k \le 6 \\ 0 & \text{otherwise} \end{cases} \tag{1}$$

Let E be event to get odd number less than 3. since 1 is only odd number less than 3.

$$\Pr(E) = p_X(1) \tag{2}$$

$$= \frac{1}{6} \tag{3}$$