A single fair 6-sided die is thrown, If X is random variable representing the number of dots showing on the die, determine the probability distribution of X

[**Solution**]

Possible values of X are given by x = 1, 2, 3, 4, 5, 6

The probability distribution associated with X can be given in the **table** from

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| x | 1 | 2 | 3 | 4 | 5 | 6 |
| P(X=x) |  |  |  |  |  |  |

Or expressed as **formular**: for x=1, 2, 3, 4, 5, 6

Or expressed as graph: 