1 Discrete random variables

We condsider the chance experiment of rolling two fair dices.

- 1. Give the sample space $\Omega.$
- 2. Formally give the event the sum of the thrown values is four.
- 3. Introduce the random variable X of the sum of the thrown values.
- 4. Give the PMF p of X.
- 5. Compute the mean of X.

2 Continuous random variables

Let X be a uniformly distributed RV $X \sim \mathcal{U}[-1, 1]$.

- 1. Give its density.
- 2. Give its CDF and plot it.
- 3. Compute its mean.