Seminar 1
Probabilities
DEDP

1. Let A be a continuous r.v. with distribution $\mathcal{U}\ [0, \pi]$
   a. Draw the PDF of A
   b. Compute the probability that $A > 1$
   c. Compute the probability that $A \in (0, 2)$
   d. Draw the CDF function and write its mathematical expression
   e. What is the distribution of $B = A - 2$?

2. Let A be a r.v. with distribution $\mathcal{N}\ (\mu = 1, \sigma^2 = 2)$.
   a. Compute the probability that $A \in [2, 4]$
   b. What is the distribution of $B = A - 2$?
   c. What is the maximum value of $w_A(x)$ and for what x is it reached?