## CS 333202: Probability and Statistics HW3 part I

1. $P(X<1)=1 / 2$
$P(X=1)=1 / 6$
$P(1 \leq X<2)=1 / 4$
$P(X>1 / 2)=1 / 2$
$P(X=3 / 2)=0$
$P(1<X \leq 6)=1 / 3$
2. $F(t)= \begin{cases}0 & t<0 \\ \frac{t}{45} & 0 \leq t<45 \\ 1 & t \geq 45 .\end{cases}$
3. 0.277
