1. The discrete random variable X has the probability distribution given in the table below.

x	–2	1	3	4	6
$P(X = x)$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{12}$	$\frac{1}{6}$

(a) Write down the value of F(5)

(1)

(b) Find E(X)

(2)

(c) Find Var(X)

(3)

(Total for Question 1 is 6 marks)