

1 Fig. 1 shows the probability distribution of the discrete random variable  $X$ .

$x$	1	2	3	4	5
$P(X = x)$	0.2	0.1	$k$	$2k$	$4k$

**Fig. 1**

(a) Find the value of  $k$ .

[2]

(b) Find  $P(X \neq 4)$ .

[2]