$P(X = x) \mid 0.1 \mid 0.2 \mid 0.2 \mid 0$.3 0.2		
$\gamma = (x + i)$)2	1	•
At $X = -2$ $\Rightarrow Y = 1$	A+ X = -1	A+ x = \	A+ X=2
7) 7=1	$\gamma = 0$	7 = 4	\ \ \ \ \ \ \ \ \ \ \ \ = 9

2) $X\sim {\sf Geometric}(0.8).$ Define a function f(x) as

$$x = \begin{cases} x^2 & \text{for } x < 5\\ 25 & \text{for } x \ge 5 \end{cases}$$

Find the range of f(X).

Range of
$$f(x) = \{1, 4, 9, 16, 25\}$$

3) Suppose $X\sim \mathsf{Uniform}(\{-3,-2,-1,0,1,2,3\})$ and $f(x)=x^2$. Find P(f(X)=4)

$$f(x)=4$$
 when,
 $x=-2$ or $x=2$
 $\Rightarrow P(f(x)=4) = P(f(x=2)) + P(f(x=2))$
 $\Rightarrow \frac{1}{7}$