Inbapagenne X & Ge(p). Moraba

a) 
$$\frac{x}{|p|} p pq pq^2 - pq^$$

8) 
$$\frac{p}{qs} g_{x(s)} = \frac{p}{a-qs}$$
 |S| < 1

$$\frac{\text{force}}{\text{off}} |x| = 0 = P(x_1 = 1) = p$$

$$P(x = 1) = |P(x_1 = 0, x_2 = 1) = pq$$

$$01$$

$$|P(x=u) = |P(x_0 = 0, x_2 = 0 - x_k = 0, x_{k+1} = L) q^{k} p \qquad 00 - 01$$

$$q_{X}(s) = Es^{X} = \sum_{k=0}^{\infty} s^{k} \cdot pq^{k} = p \sum_{k=0}^{\infty} s^{k} p^{k} = \frac{p}{1 - qs}$$

$$\frac{\text{Gegentlue}}{\text{Georgian}} \quad X \sim \text{Ge(p)} = > \text{ff} X = \frac{a}{p}$$

$$g'' \times (L) = \frac{2pq^2}{(1-qs)^3} \Big|_{s=L} = \frac{2pq^2}{(1-q)^3} = \frac{2q^2}{p^2}$$

$$p \times = \frac{2q^2}{p^2} + \frac{q}{p} - \frac{q}{p}\Big|_{z=L}^{2} = \frac{q^2+qp}{p^2} = \frac{q}{p^2}$$

$$p \times = \frac{2q^2}{p^2} + \frac{q}{p} - \frac{q}{p}\Big|_{z=L}^{2} = \frac{q^2+qp}{p^2} = \frac{q}{p^2}$$

$$\bigoplus$$
 operi vayar go vepto egu  $p=\frac{1}{2}$ 

→ Spoi veyenennu ausaru go voplen wen