$$3^{-7}$$
 $X = n^{\circ}dc$ lanzamientos de una monedo hasta salir casa.
 $P(X = x) = 2^{-x}$; $x = 1, 2, ...$

$$\sum_{x} P(X=x) = \sum_{x} 2^{-x} = \frac{1/2}{1-1/2} = \frac{1}{1/2} = 1 \rightarrow 0$$
maso de probabilieled esté bien definide.

b)
$$P(4 \le X \le 10) = \frac{10}{5 = 4} P(X = i) = \frac{1}{2^4} + \cdots + \frac{1}{2^{10}} = \frac{127}{1024} = 0,124023$$

d)
$$= e^{\epsilon x} \cdot \frac{1}{2^{\kappa}} = \frac{e^{\kappa z}}{1 - e^{\kappa}} + \epsilon \left[-\infty, \log z\right]$$

Media:
$$E[x] = \frac{M_x(t)}{dt} = \frac{\frac{e^t}{2}(1 - \frac{e^t}{2}) - \frac{e^t}{2}(-\frac{e^t}{2})}{(1 - \frac{e^t}{2})^2} \rightarrow \xi = 0 = 2 \text{ by terminator}$$

$$E[x^2] = m_2 = \frac{d'' M_x(t)}{dt} = \frac{2e^{t}(2-e^{t})^{L} + 4e^{t}(2-e^{t})}{(2-e^{t})^{4}} = \frac{2e^{t}(2-e^{t})^{L}}{(2-e^{t})^{4}} = \frac{2e^{t}(2-e^{t})^{L}}{(2-e^{t})^{4}}$$
len comicale

→ Van
$$(x) = 6 - 2^2 = 2$$
 lantomientos²

$$\sigma_x = \sqrt{2}$$
 lantomientos.