8. Calcular las funciones masa de probabilidad de las variables Y=X+2 y $Z=X^2$, siendo X una variable aleatoria con distribución:

$$P(X=-2)=\frac{1}{5}, \quad P(X=-1)=\frac{1}{10}, \quad P(X=0)=\frac{1}{5}, \quad P(X=1)=\frac{2}{5}, \quad P(X=2)=\frac{1}{10}.$$

¿Cómo afecta el cambio de X a Y en el coeficiente de variación?

$$X = X + 2 = X^{2}$$
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a)
$$Y = X + 2$$

9 | P;

0 | 115

1/10

2 | 1/5

1/10

$$E = \begin{cases} -2, -1, 0, 1, 2 \end{cases}$$

$$E = \begin{cases} 0, 1, 2, 3, 4 \end{cases}$$

$$P' = P(y = y) = \begin{cases} P' = x/h(x) = y \end{cases}$$

$$= P(X = y - 2) \forall y = 91, 2, ...y$$

$$P(X = X) = P(X = X) = P(X = 0) = \frac{1}{5}$$

$$P(X = X) = P(X = 0) = \frac{1}{5}$$

$$P(X = 1) = P(X = -1) + P(X = 1) = \frac{1}{5}$$

$$P(X = 1) = P(X = -2) + P(X = 2) = \frac{1}{5}$$

$$P(X = 1) = P(X = -2) + P(X = 2) = \frac{1}{5}$$

$$= \frac{3}{10}$$

Sabonos le signionne sobre la varianta y la exporanza.

$$\sum L^{\zeta} J = \sum_{i} x_{i} P(X = x_{i})$$

$$E[x] = -\frac{2}{5} + \frac{-1}{10} + \frac{2}{5} + \frac{2}{10} = \frac{1}{10}$$

$$E[x^{2}] = \frac{4}{5} + \frac{1}{10} + \frac{2}{5} + \frac{4}{10} = \frac{17}{10}$$

$$6r = + \sqrt{\frac{169}{100}} = \frac{13}{10} = 6y$$

$$CU(x) = \frac{13/10}{2/10} = 13 \quad CU(4) = \frac{13/10}{2/10} =$$

= 13