

$$1) \quad p_x(x_i) = \begin{cases} 0.2 & x_1 = 0 \\ 0.3 & x_2 = 2 \\ 0.1 & x_3 = 4 \\ 0.2 & x_4 = 6 \\ 0.2 & x_5 = 8 \end{cases}$$

$$Y = 0.25(x^2 - 8x) \rightarrow$$

| | | | | | |
|----------|---|----|----|----|---|
| x_i | 0 | 2 | 4 | 6 | 8 |
| $g(x_i)$ | 0 | -3 | -4 | -3 | 0 |

ZALOGA VREDNOSTI Y: -4, -3, 0.

$$p_y(y_j) = \begin{cases} 0.1 & y_1 = -4 \\ 0.3 + 0.2 = 0.5 & y_2 = -3 \\ 0.2 + 0.2 = 0.4 & y_3 = 0 \end{cases}$$

$$\underline{\underline{E[Y] = 0.1 \cdot (-4) + 0.5 \cdot (-3) + 0.4 \cdot 0 = -0.4 - 1.5 = -1.9}}$$

