

$$P(y=0) = .5$$

$$P(y=1) = .2$$

$$P(y=2) = .3$$

$$E(x) = .3 \times 0 + .45 + .25 \times 2 = .95$$

$$E(y) = .5 \times 0 + .20 + .3 \times 2 = .6$$

$$E(y|x=2) = PR(y=0|x=2) \times 0 + PR(y=1|x=2) + PR(y=2|x=2) \times 2$$

Puisque

$$PR(y=1|x=2) = PR(y=1, x=2) / PR(x=2) =$$

$$\frac{.05}{.25}$$

$$PR(y=2|x=2) = PR(y=2, x=2) / PR(x=2) =$$

$$\frac{.10}{.25}$$

$$E(y|x=2) = \frac{.05}{.25} + \frac{.10}{.25} (2) = 1$$