Example 1.17 $|E[X|Y=0] = \sum_{x=0}^{2} x_i p_{X|Y}(x_i|\delta)$ $= 0 \cdot \frac{1}{2} + 1 \cdot \frac{1}{2} + 2 \cdot 0 = \frac{1}{2}$ |E[X|Y=1] = 1 $|E[X|Y=2] = \frac{3}{2}$ |E[X|Y=y] |E[X|Y=y]