$$\frac{6\times 9.2.}{P(x=1|y=0)} = \frac{P(y=0|x=1)P(x=1)}{0.85 \times 0.9 + 0.15 \times 0.1}$$

$$= 0.019$$

$$\frac{6\times 9.2.}{0.85 \times 0.9 + 0.15 \times 0.1}$$

$$= 0.015$$

$$\frac{6\times 9.2.}{0.85 \times 0.9 + 0.15 \times 0.1}$$

$$= 0.015$$

$$\frac{0.015}{0.015 + 0.9} = \frac{0.015}{0.95}$$

$$3 \times 9.8$$

marginal distribution. Ply-2) = 0.5 + 0.075 = 0.575

 $P(y=1) = 0.5 \times 0.85 = 0.425$.

 $|Y(Y) = |Y_2(0.425)$

$$\frac{2}{5}(9.1)$$

$$I(y; y) = \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(-\frac{1}{5}|x|^{2}) + \frac{1}{5}(-\frac{1}{5}|x|^{2})$$

$$\frac{2}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(-\frac{1}{5}|x|^{2}) + \frac{1}{5}(-\frac{1}{5}|x|^{2})$$

$$\frac{2}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2})$$

$$\frac{2}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2})$$

$$\frac{2}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2}) + \frac{1}{5}(1|x|^{2})$$

$$\frac{2}{5}(1|x|^{2}) + \frac{1}{5}(1|x$$