$$P(y=1) = 1,004$$

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$$P(x=1|y=0) = 0.6$$

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PKIYEN

$$P(x_1, x_2, x_3|y=1)$$

= $P(x_1|y=1) \cdot P(x_2|y=1) \cdot P(x_3|y=1)$
 θ_1 θ_3

$$P(y=1) = \frac{N_1}{N} = \frac{t}{10}$$

Ply) n Ber (b)

$$P(cir|y=1) = \frac{N_{cir,1}}{N_1} = \frac{3}{t}$$
 $P(oul|y=1) = 1 - \frac{3}{5} = \frac{2}{5}$

$$P(cirly=0)=\frac{2}{5}$$

$$\phi(\text{light} \mid y = 0) = \frac{3}{5}$$

$$= \frac{3}{5} \cdot \frac{1}{5} \cdot \frac{2}{5} \cdot \frac{5}{10} = \frac{3}{124}$$

$$P(y=0|cir, small, light) = \frac{9}{125}$$

$$P(y=1|cir, small, light) = \frac{\frac{3}{125}}{\frac{3}{125} + \frac{9}{125}} = 0.25$$

$$P(y=0|x^*) = 0.25$$