$$P(y = 1) > P(\bar{y} = 1)$$

$$y = 1$$

$$P(\bar{y} = 1 | y = 1) = \frac{2}{3} \longrightarrow \bar{y} = 1$$

$$P(\bar{y} = 0 | y = 1) = \frac{1}{3} \longrightarrow \bar{y} = 0$$

$$y = 0$$

$$P(y = 1) < P(\bar{y} = 1)$$

$$y = 1$$

$$\bar{y} = 1$$

$$\bar{y} = 1$$

$$\bar{y} = 0$$

$$\bar{y} = 0$$