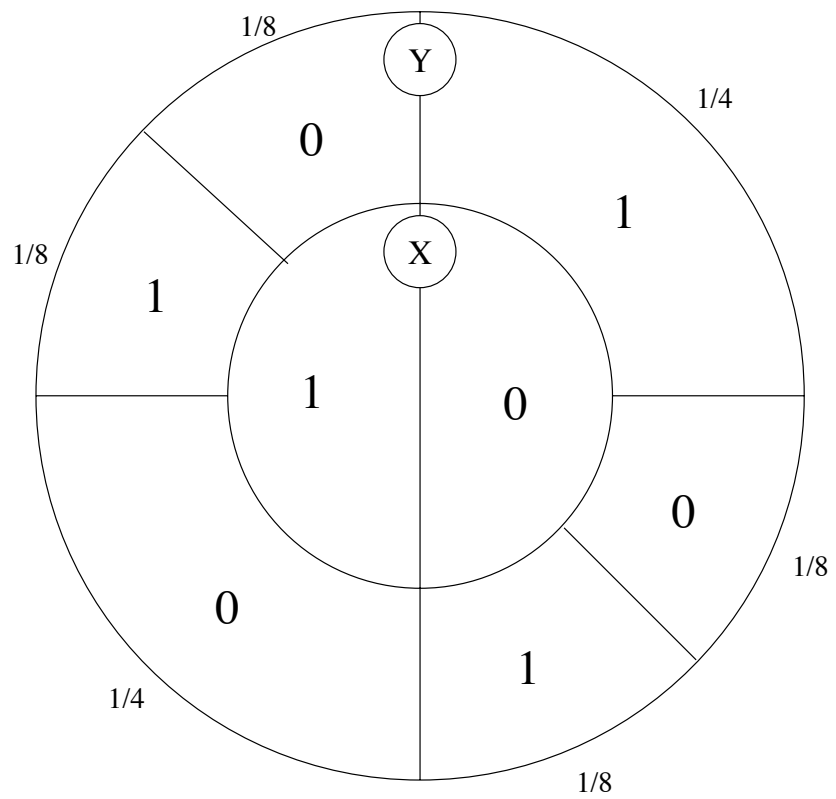


$$P(X=1) = 1/2$$

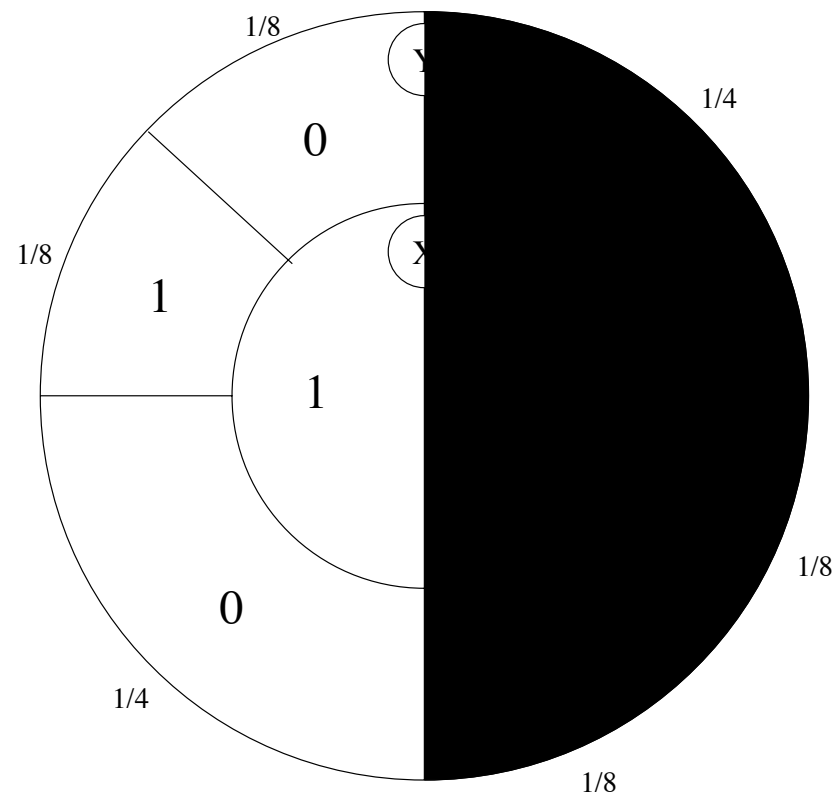
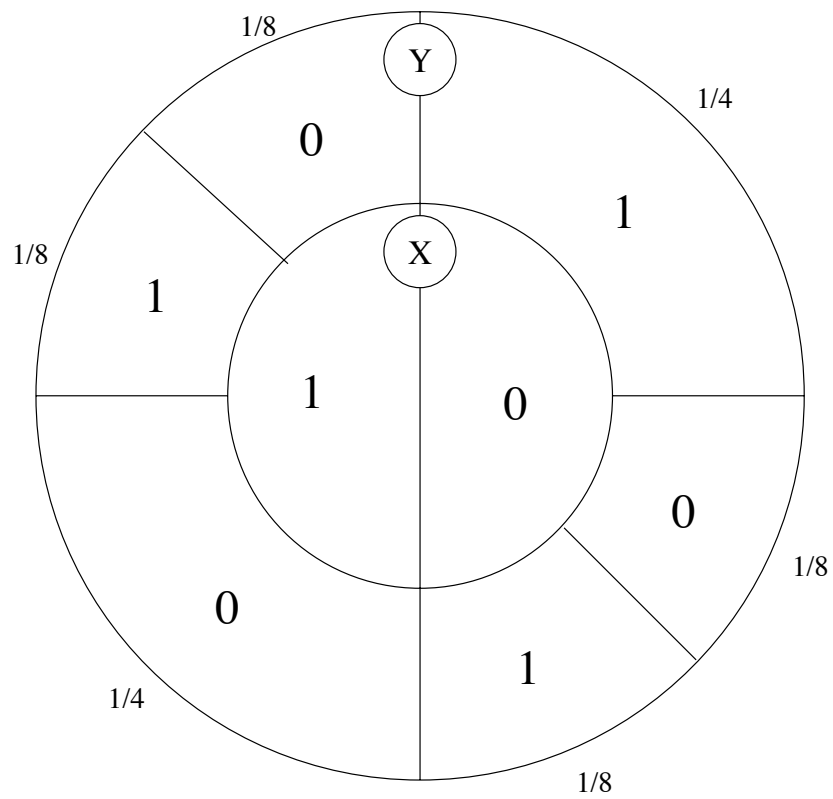
$$P(X=0)=1/2$$

$$P(Y=1) = 1/2$$

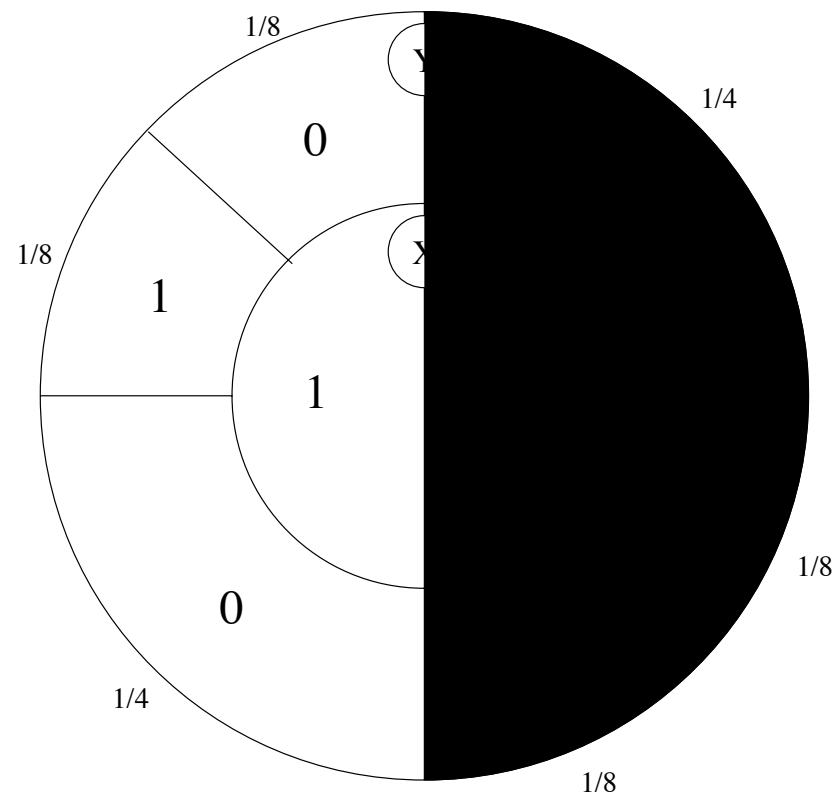
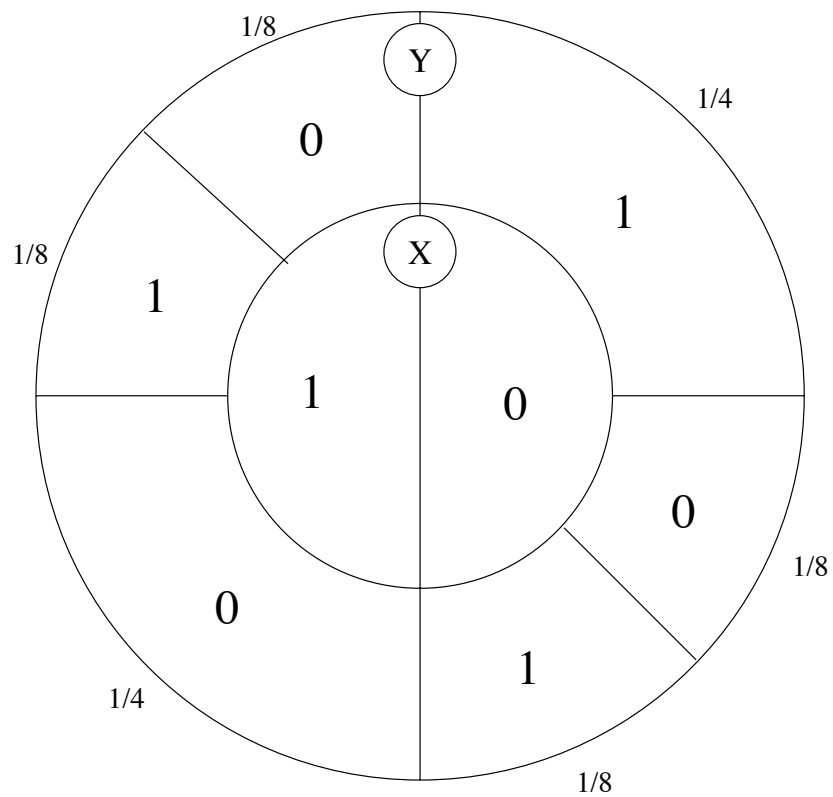
$$P(Y=0)=1/2$$



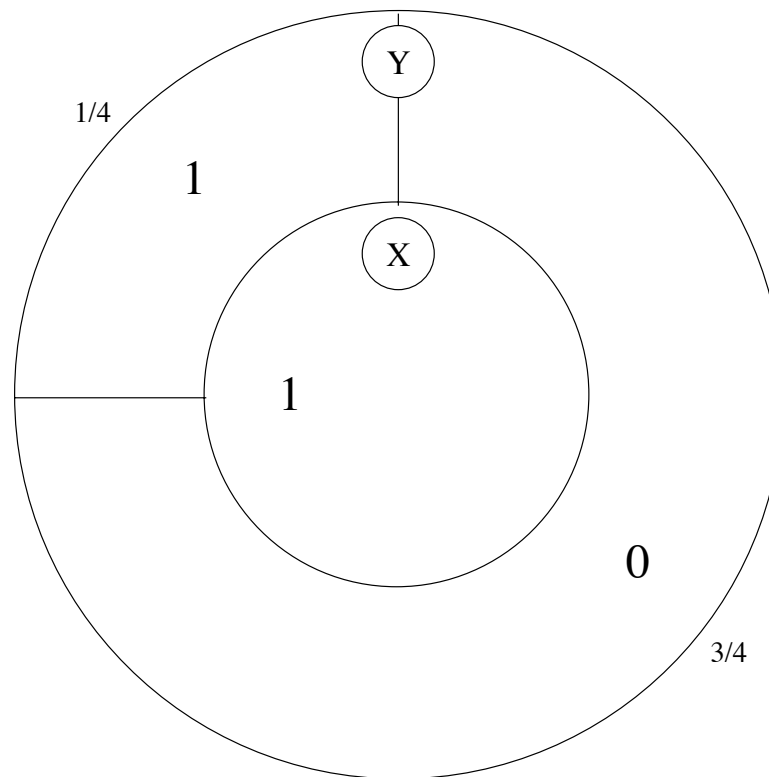
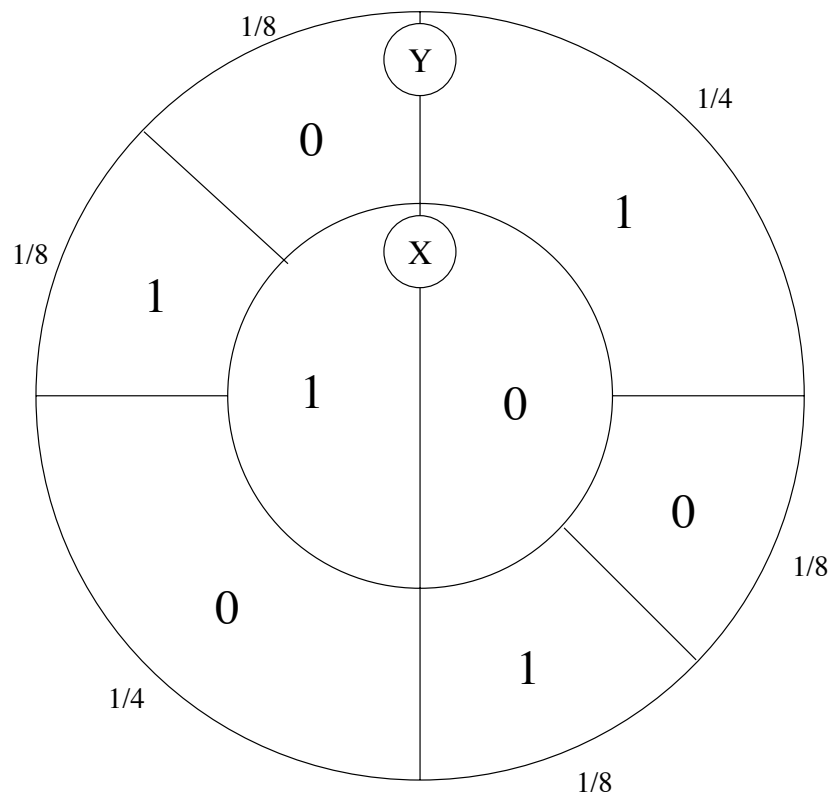
$$P(Y=0 \mid X=1) = ?$$



$$P(Y=0 \mid X=1) = ?$$



$$P(Y=0 | X=1) = \frac{P(Y=0 \text{ and } X=1)}{P(X=1)} = \frac{1/8+1/4}{1/2} = \frac{1/8+2/8}{1/2} = \frac{3}{4}$$



$$P(Y=0 | X=1) = \frac{P(Y=0 \text{ and } X=1)}{P(X=1)} = \frac{1/8 + 1/4}{1/2} = \frac{1/8 + 2/8}{1/2} = \frac{3}{4}$$