

1.

Probabilidad

$$\begin{cases} c=1 \\ c=0 \end{cases}$$

$$P(1/1, 1) = \frac{0/1 * 0/1 * 1/3}{1/3 * 0/1} = \boxed{\frac{1}{3}}$$

$$P(0/1, 1) = \frac{1/2 * 0/2 * 2/3}{1/3 * 0/1} = \frac{1}{2} \cdot \frac{2}{3} = \frac{2}{6} = \boxed{\frac{1}{3}}$$

2.

Probabilidad

$$\begin{cases} c=1 \\ c=0 \end{cases}$$

$$P(0/1/3, 1, 7) = \frac{0/2 * 0/1/3 * 0/1/3 * 3/4}{0/4 * 1/4 * 1/4} = \frac{3}{4} = \boxed{0'75}$$

$$P(1/1/3, 1, 7) = \frac{0/4 * 0/1 * 0/1 * 1/4}{0/4 * 1/4 * 1/4} = \frac{1}{4} = \boxed{0'25}$$

3.

Probabilidad

$$\begin{cases} c=1 \\ c=0 \end{cases}$$

$$P(1/1/2, 3, 4, 0) = \frac{0/2 * 0/3 * 1/3 * 0/3 * 3/5}{0/5 * 0/5 * 1/5 * 1/5} = \frac{1}{5} = \boxed{0'2} 98$$

$$P(0/1/2, 3, 4, 0) = \frac{0/2 * 0/2 * 0/2 * 1/2 * 3/5}{0/5 * 0/5 * 1/5 * 1/5} = \frac{1}{5} = \boxed{0'2} 1$$

4.

Probabilidad

$$\begin{cases} c=1 \\ c=0 \end{cases}$$

$$P(1/1/2, 1, 1, 4, 6) = \frac{1/4 * 1/4 * 2/4 * 0/4 * 0/4 * 4/7}{1/7 * 1/7 * 2/7 * 0/7 * 1/7} = \frac{1}{56} = \boxed{0'0178}$$

$$P(0/1/2, 1, 1, 4, 6) = \frac{0/3 * 0/3 * 0/3 * 0/3 * 1/3 * 3/7}{1/7 * 1/7 * 2/7 * 0/7 * 1/7} = \frac{1}{7} = \boxed{0'142}$$