$G(M,N) = 1851,5$

(4)

1) Calcolo $P(0,2,2)$

$$P(0,2,2) = \frac{f_1(0) \cdot f_1(2) \cdot f_2(2)}{1851,5} = \frac{1 \cdot 4 \cdot 25}{1851,5} = \frac{100}{1851,5} = 0.054$$

Calcolo X_R (x coda) => pezzi prodotti mediamente in 1 minuto

$$X_R = \frac{G(M,N-1)}{G(M,N)} = \frac{356}{1851.5} = 0.19 \text{ p/min.}$$

2) Calcolo W_q (tempo in coda)

$$W_q = \frac{N}{X_R} - \sum_{s=1}^{M} x_s = \frac{4}{0,19} - (5+2+3) = 11,05 \text{ minuti}$$

3) Calcolo $P(N_{c/s} = 4) = ?$

$$P(n_K = K) = \frac{F_H(K) \cdot G(M-1; N-K)}{G(M,N)}$$

$$P(n_3 = 4) = f_3(4) \cdot \frac{G(3-1; 4-4)}{G(3,4)} = 4.5 \cdot \frac{1}{1.851,5} = 0.0024$$

(f_3: $3 \downarrow M$; $f_3(4)$: $4 \uparrow K$; $G(3-1; 4-4)$: M)

3 macchine
= 3 stazioni