a)
$$E[tq] = 1 = 1 = 2,5 \text{ minutos}$$
 $\mu - \lambda = 1 - 0,6$

b)
$$E[w] = \rho^2 = 0.6^2 = 0.9 \text{ carros.}$$

a)
$$E(tw) = \rho^2 = 0.4^2 = 6.6 ms$$

$$1(1-\rho) \quad 40(1-0.4)$$

$$E[q] = 0.8 - (1+2) \cdot 0.8^{3} = 0.8525$$
 Pb = 0.2622

p/J=5: Pb=0,066 $E[q] = 0.8 - 7.0.8^{f} = 2.243$ $1-0.8 \quad 1-0.8^{f}$ E[1g] = E[q] = 11,47ms 200(1-Pb) P/J=10: Pb = 0,0184 E [4] E[q] 200(1- 90) 1/5=15: E[9] = 0,8 _ 17.0,817 Pb = 0,006 E[tq] = E[q]
200(1-16) = 18.15 ms

a)
$$E[t^2s] = E[ts]^2 = 1/\mu^2$$
 $\mu = k/n = 10.10^3/2.10^3 = 5$

$$= 1/25$$

$$p = 1/\mu = 1/5$$

$$E[tq] = 1 \cdot E[t^2s] + 1 = 1 \cdot 1/25 + 1 = 225 \text{ m/s}$$

$$\frac{2(1-p)}{2(1-p)} \mu = \frac{1 \cdot 1/25}{2(1-0,2)} \cdot \frac{1}{5}$$

$$E[tq] = 1.2/25 + 1 = 250 \text{ ms}$$

$$2(1-0,2) = 5$$