2)
$$v \cdot t_1 = 30$$
 $ms \quad t_1 = \frac{30}{v}$ $t = t_1 + t_2 = \frac{30 + 40}{v + 20} < 1$ $(v - 30) \cdot t_2 = 40$ $ms \quad t_2 = \frac{40}{v - 30}$