

P 3-6-1

$$a) R = 16 + \frac{48 * 24}{48 + 24} = 32 \Omega$$

$$b) r = \frac{32 + 32}{8 + \frac{32 * 32}{32 + 32}} * 24 = 16 \text{ V}$$

$$i = \frac{16}{32} = \frac{1}{2} \text{ A}$$

$$c) i_2 = \frac{48}{48 + 24} * \frac{1}{2} = \frac{1}{3} \text{ A}$$

