



$$U_1 = 14 - 8 = 6V$$

$$E = 6 - 6 = 0V$$

$$i_2 = \frac{U_1}{R} = \frac{6}{3} = 2A$$

$$i_R = -i_2 + 4.5 = -2 + 4.5 = 2.5A$$

$$R = \frac{U_R}{i_R} = \frac{8}{2.5} = 3.2\Omega$$

$$U_R = 14 - 6 = 8V$$