**ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ**

**Θέμα 4ο**

**4.1** $R_{ολ} = R_1 + R_2 \Rightarrow R_{ολ} = 2\Omega + 8\Omega \Rightarrow R_{ολ} = 10\Omega$

**4.2** $I = \frac{E}{R_{ολ}} \Rightarrow I = \frac{40V}{10\Omega} \Rightarrow I = 4A$

**4.3**

$$U_{R_1} = \frac{R_1}{R_1 + R_2} \cdot E \Rightarrow U_{R_1} = \frac{2\Omega}{2\Omega + 8\Omega} \cdot 40V \Rightarrow U_{R_1} = \frac{2\Omega}{10\Omega} \cdot 40V \Rightarrow U_{R_1} = 8V$$

**4.4**

$$U_{R_2} = \frac{R_2}{R_1 + R_2} \cdot E \Rightarrow U_{R_2} = \frac{8\Omega}{2\Omega + 8\Omega} \cdot 40V \Rightarrow U_{R_2} = \frac{8\Omega}{10\Omega} \cdot 40V \Rightarrow U_{R_2} = 32V$$