

## ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

### Θέμα 4<sup>ο</sup>

$$\alpha) Q = \frac{U}{t} \Rightarrow Q = \frac{200}{4} \frac{\text{m}^3}{\text{h}} \Rightarrow Q = 50 \frac{\text{m}^3}{\text{h}}$$

$$\beta) Q = V_1 \times A_1 \Rightarrow V_1 = \frac{Q}{A_1} \Rightarrow V_1 = \frac{50}{0,05} \frac{\text{m}^3}{\text{m}^2 \cdot \text{h}} = 1000 \frac{\text{m}}{\text{h}}$$

$$\gamma) \text{ Από την εξίσωση συνέχειας έχουμε: } V_1 \times A_1 = V_2 \times A_2 \Rightarrow V_2 = \frac{V_1 \times A_1}{A_2} \Rightarrow V_2 = \frac{1000 \frac{\text{m}}{\text{h}} \times 0,05 \text{m}^2}{0,02 \text{m}^2}$$

$$\Rightarrow V_2 = 2500 \frac{\text{m}}{\text{h}}$$