

ΛΥΣΗ

α) Είναι

- $\sqrt{20} = \sqrt{4 \cdot 5} = \sqrt{4} \cdot \sqrt{5} = 2 \cdot \sqrt{5} = 2 \cdot 2,24 = 4,48$
- $\sqrt{45} = \sqrt{9 \cdot 5} = \sqrt{9} \cdot \sqrt{5} = 3 \cdot \sqrt{5} = 3 \cdot 2,24 = 6,72$
- $\sqrt{80} = \sqrt{16 \cdot 5} = \sqrt{16} \cdot \sqrt{5} = 4 \cdot \sqrt{5} = 4 \cdot 2,24 = 8,96$

β) Ισχύει ότι:

$$\frac{3 \cdot \sqrt{20} + \sqrt{80}}{\sqrt{45} - \sqrt{5}} = \frac{3 \cdot 2\sqrt{5} + 4\sqrt{5}}{3\sqrt{5} - \sqrt{5}} = \frac{6\sqrt{5} + 4\sqrt{5}}{3\sqrt{5} - \sqrt{5}} = \frac{10\sqrt{5}}{2\sqrt{5}} = \frac{10}{2} = 5$$