α) Είναι:

$$\text{A} \cdot \text{B} \cdot \Gamma = \sqrt[3]{5} \cdot \sqrt{3} \cdot \sqrt[6]{5} =$$

$$= 5^{\frac{1}{3}} \cdot \sqrt{3} \cdot 5^{\frac{1}{6}} = \sqrt{3} \cdot 5^{\frac{1}{3}+\frac{1}{6}} =$$

$$= \sqrt{3} \cdot 5^{\frac{3}{6}} = \sqrt{3} \cdot 5^{\frac{1}{2}} =$$

$$= \sqrt{3} \cdot \sqrt{5} = \sqrt{15}$$

β) Είναι:

$$\text{A} = \sqrt[3]{5} = 5^{\frac{1}{3}} = (5^2)^{\frac{1}{6}} = \sqrt[6]{25} \quad \text{και} \quad \text{B} = \sqrt{3} = 3^{\frac{1}{2}} = (3^3)^{\frac{1}{6}} = \sqrt[6]{27}$$

Ισχύει ότι:

$$25 < 27 \Leftrightarrow \sqrt[6]{25} < \sqrt[6]{27} \Leftrightarrow \text{A} < \text{B}$$