## 31.6

Έστω : $A = 2^{\log\frac{3}{5}} \cdot 3^{\log\frac{5}{2}} \cdot 5^{\log\frac{2}{3}} > 0$

$$\log A = \log\left[ 2^{\log\frac{3}{5}} \cdot 3^{\log\frac{5}{2}} \cdot 5^{\log\frac{2}{3}} \right] =$$

$$= \log 2 \cdot (\log 3 - \log 5) + \log 3(\log 5 - \log 2) + \log 5(\log 2 - \log 3) =$$

$$\log 2 \cancel{\log} 3 - \log 2 \cancel{\log} 5 + \log 3 \cancel{\log} 5 - \log 3 \log 2 + \log 5 \cancel{\log} 2 - \log 5 \cancel{\log} 3 = 0$$

Οπότε $\log A = 0 \Rightarrow A = 1$