

ACTIVIDAD (CONTINUACIÓN)

Escribe las siguientes potencias en forma de radical:

$$3^{1/2} = \sqrt{3} \quad 5^{2/3} = \sqrt{\quad} \quad 2^{3/4} = \sqrt{\quad} \quad 8^{4/3} = \sqrt{\quad}$$

$$7^{5/6} = \sqrt{\quad} \quad (x+2)^{3/2} = \sqrt{(\quad)} \quad (x+9)^{2/3} = \sqrt{(\quad)}$$

Escribe los siguientes radicales en forma de potencias:

$$\sqrt[6]{2^5} = 2^{\frac{5}{6}} \quad \sqrt[3]{2^4} = \quad - \quad \sqrt[4]{7^2} = \quad - \quad \sqrt[5]{8^2} = \quad -$$

$$\sqrt[3]{3^9} = \quad - \quad \sqrt[8]{(x+7)^4} = (\quad) - \quad \sqrt[4]{(x+3)^5} = (\quad) -$$

Calcula las siguientes raíces aplicando las propiedades de la potenciación:

$$\sqrt{2^8} = 2^{\frac{8}{2}} = 2^4 = 16 \quad \sqrt{5^4} = \quad - = \quad = \quad \sqrt[3]{5^3} = \quad - = \quad =$$

$$\sqrt[3]{2^{15}} = \quad - = \quad = \quad \sqrt[4]{2^8} = \quad - = \quad = \quad \sqrt[5]{3^{15}} = \quad - = \quad =$$

$$\sqrt{2^6 \cdot 3^4} = \sqrt{2^6} \cdot \sqrt{3^4} = 2^{\frac{6}{2}} \cdot 3^{\frac{4}{2}} = 2^3 \cdot 3^2 = 8 \cdot 9 = 72$$

$$\sqrt[3]{2^6 \cdot 3^3} = \sqrt{\quad} \cdot \sqrt{\quad} = \quad - \cdot \quad - = \quad \cdot \quad = \quad \cdot \quad =$$

$$\sqrt[4]{2^8 \cdot 3^4} = \sqrt{\quad} \cdot \sqrt{\quad} = \quad - \cdot \quad - = \quad \cdot \quad = \quad \cdot \quad =$$

$$\sqrt[5]{2^{15} \cdot 3^{10}} = \sqrt{\quad} \cdot \sqrt{\quad} = \quad - \cdot \quad - = \quad \cdot \quad = \quad \cdot \quad =$$

$$\sqrt{\frac{36}{81}} = \sqrt{\frac{2^2 \cdot 3^2}{3^4}} = \frac{\sqrt{2^2 \cdot 3^2}}{\sqrt{3^4}} = \frac{\sqrt{2^2} \cdot \sqrt{3^2}}{\sqrt{3^4}} = \frac{2^{\frac{2}{2}} \cdot 3^{\frac{2}{2}}}{3^{\frac{4}{2}}} = \frac{2 \cdot 3}{3^2} = \frac{6}{9} = \frac{2}{3}$$

$$\sqrt{\frac{25}{4}} = \sqrt{\quad} = \frac{\sqrt{\quad}}{\sqrt{\quad}} = \frac{\quad}{\quad} = \quad - \quad \sqrt{\frac{16}{9}} = \sqrt{\quad} = \frac{\sqrt{\quad}}{\sqrt{\quad}} = \frac{\quad}{\quad} = \quad - = \quad - = \quad -$$

$$\sqrt[3]{\frac{24}{27}} = \sqrt[3]{\frac{\quad}{\quad}} = \frac{\sqrt[3]{\quad} \cdot \sqrt[3]{\quad}}{\sqrt[3]{\quad}} = \frac{- \cdot -}{-} = \frac{-}{-} = -$$

$$\sqrt[3]{\sqrt[3]{729}} = \sqrt[3]{\sqrt[3]{3^6}} = 3^{\frac{6}{2 \cdot 3}} = 3^{\frac{6}{6}} = 3$$

$$\sqrt[4]{\sqrt[4]{256}} = \sqrt[4]{\sqrt[4]{\quad}} = \quad = \quad =$$

$$\sqrt[3]{\sqrt[3]{1024}} = \sqrt[3]{\sqrt[3]{\quad}} = \quad = \quad = \sqrt{\quad}$$

$$\sqrt[3]{\sqrt[3]{128}} = \sqrt[3]{\sqrt[3]{\quad}} = \quad = \quad = \sqrt{\quad}$$