

Classwork - Pages

Θυμάμαι ότι:

$$\sqrt[v]{a} = \sqrt[v]{a^1} = a^{\frac{1}{v}}$$

$$\sqrt[v]{a^k} = a^{\frac{k}{v}}$$

$$\begin{aligned} a^k \cdot a^v &= a^{k+v} \\ a^k \div a^v &= a^{k-v} \\ (a^k)^v &= a^{k \cdot v} \end{aligned}$$

Όνομα: _____

Απλοποιώ τις παραστάσεις:

$$\sqrt{5^4} =$$

$$\sqrt[4]{2^8} =$$

$$\sqrt[3]{4^9} =$$

$$\sqrt[5]{3^{15}} =$$

$$\sqrt[6]{2^{18}} =$$

$$\sqrt[10]{4^{12}} =$$

$$\sqrt[3]{27y^3} =$$

$$\sqrt[4]{16x^8} =$$

$$\sqrt[5]{x^{10}y^{35}} =$$

$$\sqrt[3]{\frac{a^4}{b^3}} \cdot \sqrt[3]{\frac{a^2}{b}}$$

Να αποδείξετε ότι:

$$\sqrt[4]{3^3} \cdot \sqrt[3]{3} = 3 \cdot \sqrt[12]{3}$$

Βρίσκω τις τιμές των παραστάσεων: Θυμάμαι ότι:

$$4^{\frac{5}{6}} \cdot 4^{\frac{2}{3}} =$$

$$\frac{27^{\frac{3}{4}}}{27^{\frac{1}{2}}} =$$

$$\left(8^{\frac{3}{4}}\right)^{\frac{3}{2}} =$$

$$\left(9^{\frac{15}{20}}\right)^{\frac{2}{3}} \cdot \left(9^{\frac{3}{20}}\right)^{\frac{5}{3}} =$$

Να δείξετε ότι:

$$(3 + \sqrt{6}) \cdot (3 - \sqrt{6}) - \frac{6\sqrt{3}}{\sqrt{12}} = 0$$

$$\sqrt[a]{a} = \sqrt[a]{a^1} = a^{\frac{1}{a}}$$

$$\sqrt[a]{a^b} = a^{\frac{b}{a}}$$

$$\begin{aligned} a^k \cdot a^v &= a^{k+v} \\ a^k \div a^v &= a^{k-v} \\ (a^k)^v &= a^{k \cdot v} \end{aligned}$$