

## RADICACIÓN

Problema 37:

Simplifica:

$$a\sqrt{2} x 2\sqrt{a} x a\sqrt[3]{2} x 2\sqrt[3]{a} x a\sqrt[6]{2} x 2\sqrt[6]{a}$$

Solución Problema 37:

$$a\sqrt{2} x 2\sqrt{a} x a\sqrt[3]{2} x 2\sqrt[3]{a} x a\sqrt[6]{2} x 2\sqrt[6]{a}$$

$$(a\sqrt{2} x a\sqrt[3]{2} x a\sqrt[6]{2}) x (2\sqrt{a} x 2\sqrt[3]{a} x 2\sqrt[6]{a}) =$$

$$a^3 (\sqrt{2} x \sqrt[3]{2} x \sqrt[6]{2}) x 2^3 (\sqrt{a} x \sqrt[3]{a} x \sqrt[6]{a}) =$$

$$a^3 (\sqrt[6]{2^3 x 2^2 x 2}) x 2^3 (\sqrt[6]{a^3 x a^2 x a}) = a^3 (\sqrt[6]{2^6}) x 2^3 (\sqrt[6]{a^6}) =$$

$$2a^3 x 2^3 a = 2^4 x a^4 = \mathbf{16a^4}$$