

Respuestas a los ejercicios

Bloque #1:

$$a) \sqrt[4]{x^6} = x^{\frac{6}{4}} = x^{\frac{3}{2}} = \sqrt{x^3}$$

$$b) \sqrt[8]{a^4} = a^{\frac{4}{8}} = a^{\frac{1}{2}} = \sqrt{a}$$

$$c) \sqrt[6]{x^3} = x^{\frac{3}{6}} = x^{\frac{1}{2}} = \sqrt{x}$$

$$d) \sqrt[12]{y^8} = y^{\frac{8}{12}} = y^{\frac{2}{3}} = \sqrt[3]{y^2}$$

Bloque #2:

$$a) \sqrt[18]{x^{12}y^{36}z^6} = \sqrt[6]{x^{\frac{12}{6}}y^{\frac{36}{6}}z^{\frac{6}{6}}} = \sqrt[3]{x^2y^6z}$$

$$b) \sqrt[45]{x^{15}y^{30}z^{15}} = \sqrt[15]{x^{\frac{15}{15}}y^{\frac{30}{15}}z^{\frac{15}{15}}} = \sqrt[3]{xy^2z}$$

Bloque #3:

$$a) \sqrt[7]{x^{15}y^7z^{22}} = \sqrt[7]{x^7x^7xy^7z^7z^7z^7z} = x^2yz^3 \cdot \sqrt[7]{xz}$$

$$b) \sqrt[3]{x^9y^{10}zt^7} = \sqrt[3]{x^3x^3x^3y^3y^3y^3yzt^3t^3t} = x^3y^3t^2 \cdot \sqrt[3]{yzt}$$

$$c) \sqrt[5]{x^{10}y^{11}z^{12}t^{13}} = \sqrt[5]{x^5x^5y^5y^5yz^5z^5z^2t^5t^5t^3} = x^2y^2z^2t^2 \cdot \sqrt[5]{yz^2t^3}$$