

Radicales

9. Extraer un factor de:

$$1) \sqrt[3]{5^{16}} = 5^5 \cdot \sqrt[3]{5} = 3.125$$

$$2) \sqrt{4 \cdot 5} = \sqrt{\quad} \cdot \quad = \sqrt{\quad} \cdot \sqrt{\quad} = \quad \sqrt{\quad}$$

$$3) \sqrt{9 \cdot 6} = \sqrt{\quad} \cdot \quad = \sqrt{\quad} \cdot \quad = \quad \sqrt{\quad}$$

$$4) \sqrt[3]{27 \cdot 3} = \sqrt[3]{\quad} \cdot \quad = \quad \sqrt[3]{\quad}$$

$$5) \sqrt[4]{16 \cdot 5} = \sqrt[4]{\quad} \cdot \quad = \quad \sqrt[4]{\quad}$$

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

$$7) \sqrt[5]{2^{12} \cdot 7} = \sqrt[5]{\quad} \cdot \quad = \sqrt[5]{\quad} \cdot \quad = \quad \sqrt[5]{\quad}$$

$$8) \sqrt[6]{2^{15} \cdot 3} = \sqrt[6]{\quad} \cdot \quad = \sqrt[6]{\quad} \cdot \quad = \quad \sqrt[6]{\quad}$$

$$9) \sqrt{100 \cdot 2} = \sqrt{\quad} \cdot \quad = \quad \sqrt{\quad} = \quad \sqrt{\quad}$$

$$10) \sqrt{300} = \sqrt{\quad} \cdot \quad = \quad \sqrt{\quad} = \quad \sqrt{\quad}$$

$$11) \sqrt{500} = \sqrt{\quad} \cdot \quad = \quad \cdot \sqrt{\quad} = \sqrt{\quad}$$

$$12) \sqrt[3]{7^7 \cdot 2} = \sqrt[3]{\quad} = \sqrt[3]{\quad} = \sqrt[3]{\quad}$$

99. Introducir el factor mostrado en el respectivo radical:

$$1) 2\sqrt{3} = \sqrt{2^2 \cdot 3} = \sqrt{4 \cdot 3} = \sqrt{12}$$

$$2) 5\sqrt{7} = \sqrt{\quad} \cdot \quad = \sqrt{\quad} = \sqrt{\quad}$$

$$3) 2\sqrt{6} = \sqrt{\quad} \cdot \quad = \sqrt{\quad} = \sqrt{\quad}$$

$$4) 3\sqrt{18} = \sqrt{\quad} \cdot \quad = \sqrt{\quad} = \sqrt{\quad}$$

$$5) 3^4 \sqrt[3]{3 \cdot 2^3} = \sqrt[4]{\quad} \cdot \quad = \sqrt[4]{\quad} = \sqrt[4]{\quad} = \sqrt[4]{\quad}$$

$$6) 2^3 \sqrt{5 \cdot 2} = \sqrt{(\quad) \cdot \quad} = \sqrt{\quad} = \sqrt{\quad}$$

$$7) 3^{23} \sqrt[3]{3 \cdot 2} = \sqrt[3]{(\quad) \cdot \quad} = \sqrt[3]{\quad} = \sqrt[3]{\quad}$$

$$8) 2^5 \sqrt[3]{3} = \sqrt[3]{(\quad) \cdot \quad} = \sqrt[3]{\quad} = \sqrt[3]{\quad}$$

$$9) \ 3^3 \sqrt[3]{7^2} = \sqrt[3]{(\quad) \cdot \quad} = \sqrt[3]{\quad \cdot \quad} = \sqrt[3]{\quad}$$

III. Simplificar los siguiente radicales

$$1) \ \sqrt{8} = \sqrt{2^3} = 2\sqrt{2}$$

$$2) \ \sqrt{12} = \sqrt{\quad \cdot \quad} = \sqrt{\quad}$$

$$3) \ \sqrt{48} = \sqrt{\quad \cdot \quad} = \sqrt{\quad}$$

$$4) \ \sqrt[3]{54} = \sqrt[3]{\quad \cdot \quad} = \sqrt[3]{\quad}$$

$$5) \ \sqrt[3]{24} = \sqrt[3]{\quad \cdot \quad} = \sqrt[3]{\quad}$$

$$6) \ \sqrt[3]{192} = \sqrt[3]{\quad \cdot \quad} = \sqrt[3]{\quad}$$

$$7) \ \sqrt{500} = \sqrt{\quad \cdot \quad} = \sqrt{\quad}$$

$$8) \ \sqrt{245} = \sqrt{\quad \cdot \quad} = \sqrt{\quad}$$

$$9) \ \sqrt{1575} = \sqrt{\quad \cdot \quad \cdot \quad} = \sqrt{\quad}$$

$$10) \ \sqrt{63} = \sqrt{\quad \cdot \quad} = \sqrt{\quad}$$