

"Radicales 2da parte"

Alumno: _____

IV. Hallar el resultado de.

1) $3\sqrt[3]{12x^2y} \cdot 2x\sqrt[3]{6xy^2} \cdot y\sqrt[3]{18x^2yz^2}$

2) $5\sqrt{2} \cdot 3\sqrt{6} \cdot \sqrt{48}$

3) $5(x^2-1)\sqrt[3]{4x-4} \cdot 2(x+1)\sqrt[3]{x^2-2x+1} \cdot (3x-3)\sqrt[3]{x^2+x-2}$

4) $2\sqrt{a^3+a^2b} \cdot b\sqrt{a^2b^2-ab^2} \cdot 3a^2\sqrt{4a^3b-4a^2b+4a^2b^2-4ab^2}$

5) $3x\sqrt[4]{x^2-1} \cdot (2x-2)\sqrt[3]{x^2-2x+1} \cdot (3x+3)\sqrt[6]{x^2+2x+1}$

6) $3a\sqrt{2b} \cdot 2b\sqrt[3]{12a^2} \cdot 2a^2b\sqrt[4]{72a^3b^2} \cdot \sqrt{6ab}$

7) $3\sqrt{12} \cdot 4\sqrt[3]{6} \cdot 2\sqrt{18} \cdot 12\sqrt[4]{24}$

8) $(2x+2)\sqrt{x^2-1} \cdot (6x-6)\sqrt[3]{x^2+2x+1} \cdot (x^2+x-2)\sqrt[6]{(x^2+x-2)^5}$

9) $(2a^2-6ab)\sqrt[4]{12a^5+36a^4b+12b^5} \cdot (a^2-9b)\sqrt[3]{18a^2-18b^2}$

10) $(x-y)^2\sqrt{x^2-yz} \cdot (x+y)\sqrt[3]{x^2-2xy+y^2} \cdot \sqrt[4]{x^2+2x-xy-2y}$

V) Resuelve

① $\frac{3a^2b\sqrt[3]{12ab^2} \cdot 2b^2\sqrt{6ab} \cdot (2ab)^{0,25}}{15a^2b^{1/2} \cdot (3a^2b)^{2/3} \cdot 2b(3a^2b)^{0,5}}$

② $\frac{(3x+3)\sqrt{x^2-1} \cdot (x^2+2x+1)\sqrt[3]{12x^2+36x+24}}{4x-4\sqrt[4]{(8x^2-16x-24) \cdot (x+3)^{21}} \cdot (x+1)^{0,5} \cdot (20x+20)^{0,18}}$

③ $\frac{(4x+2)\sqrt[3]{24x^2-24x+6} \cdot 12(x-1)\sqrt{32x^2-8}}{(x^2-1) \cdot (2x^2+3x+1)^{0,75} \cdot (48x^2-24x-24)^{0,6}}$

④ $\frac{4a^2b\sqrt[4]{1152a^3b} \cdot 6b\sqrt[3]{1944a^2b^2}}{\sqrt[6]{2592a^5b^4}}$

⑤ $\frac{3\sqrt[3]{12} \cdot 2\sqrt{6}}{5\sqrt[4]{24} \cdot 2\sqrt[3]{18}}$

⑥ $\frac{12\sqrt[4]{120} \cdot \sqrt[3]{52}}{3\sqrt{6} \cdot 2\sqrt[6]{60000}}$