

Simplifica todo lo que puedas

$$\sqrt{27} - \sqrt{3} + \sqrt{192} - 2\sqrt{12}, \quad \frac{\sqrt[4]{a^3}\sqrt{a}}{\sqrt[3]{a^2}}, \quad \sqrt{27} + \frac{1}{2}\sqrt{12} - 2\sqrt{75}$$

Solución:

$$\begin{aligned}\sqrt{27} - \sqrt{3} + \sqrt{192} - 2\sqrt{12} &= 7\sqrt{3}, \quad \frac{\sqrt[4]{a^3}\sqrt{a}}{\sqrt[3]{a^2}} = \sqrt[12]{a^7}, \\ \sqrt{27} + \frac{1}{2}\sqrt{12} - 2\sqrt{75} &= -6\sqrt{3}\end{aligned}$$

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$$\sqrt{27} + \frac{1}{2}\sqrt{12} - 2\sqrt{75}, \quad \frac{\sqrt{75}\sqrt[3]{25}}{\sqrt{15}}, \quad \sqrt{48} + 3\sqrt{75} - \sqrt{27} + \sqrt{108}$$

Solución:

$$\begin{aligned}\sqrt{27} + \frac{1}{2}\sqrt{12} - 2\sqrt{75} &= -6\sqrt{3}, \quad \frac{\sqrt{75}\sqrt[3]{25}}{\sqrt{15}} = 5\sqrt[6]{5}, \\ \sqrt{48} + 3\sqrt{75} - \sqrt{27} + \sqrt{108} &= 22\sqrt{3}\end{aligned}$$

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$$3\sqrt{32} - \frac{1}{3}\sqrt{72} + \sqrt{128}, \quad \frac{\sqrt{27}\sqrt[3]{9}}{\sqrt[6]{3}}, \quad \sqrt{48} + 3\sqrt{75} - \sqrt{27} + \sqrt{108}$$

Solución:

$$\begin{aligned}3\sqrt{32} - \frac{1}{3}\sqrt{72} + \sqrt{128} &= 18\sqrt{2}, \quad \frac{\sqrt{27}\sqrt[3]{9}}{\sqrt[6]{3}} = 9, \\ \sqrt{48} + 3\sqrt{75} - \sqrt{27} + \sqrt{108} &= 22\sqrt{3}\end{aligned}$$

Simplifica todo lo que puedas

$$\sqrt{75} + \frac{1}{2}\sqrt{192} + \sqrt{147}, \quad \frac{\sqrt{216}\sqrt[3]{9}}{\sqrt[6]{3}}, \quad \sqrt{96} - \sqrt{150} + 2\sqrt{294}$$

Solución:

$$\sqrt{75} + \frac{1}{2}\sqrt{192} + \sqrt{147} = 16\sqrt{3}, \quad \frac{\sqrt{216}\sqrt[3]{9}}{\sqrt[6]{3}} = 18\sqrt{2},$$