

Wurzeln Aufgabe 106

$$\begin{aligned} & (10 \times \sqrt{48} - 6 \times \sqrt{27} + 4 \times \sqrt{12}) \div \sqrt{3} = \\ & = (10 \times \sqrt{16 \times 3} - 6 \times \sqrt{9 \times 3} + 4 \times \sqrt{4 \times 3}) \div \sqrt{3} \\ & = (10 \times 4 \times \sqrt{3} - 6 \times 3 \times \sqrt{3} + 4 \times 2 \times \sqrt{3}) \div \sqrt{3} \\ & = (40 \times \sqrt{3} - 18 \times \sqrt{3} + 8 \times \sqrt{3}) \div \sqrt{3} \\ & = 30 \times \sqrt{3} \div \sqrt{3} = \mathbf{30} \end{aligned}$$