

Redueix a índex comú i calcula aquests productes: [] PAG. 28]

a ₹5· √5

b $\sqrt[3]{4} \cdot \sqrt[6]{2}$

 $c^{3\sqrt{2^5}} \cdot \sqrt[5]{2}$

d $\sqrt[6]{a^5} \cdot \sqrt[4]{a^3}$

- **e** ³√16 · √8 · √2
- $\int \sqrt[4]{a^3b^2} \cdot \sqrt{ab} \cdot \sqrt[3]{a^4b^5}$

Calcula i simplifica al màxim: [1] PAG. 28

a
$$\sqrt{5} + \frac{2\sqrt{5}}{3} - \frac{3\sqrt{5}}{4}$$

b
$$\sqrt{3} \cdot (\sqrt{54} - \sqrt{42} + \sqrt{24})$$

$$\mathbf{c} \cdot \frac{\sqrt{3}}{5} \cdot \left(\frac{\sqrt{12}}{4} - \frac{\sqrt{27}}{2} \right)$$

d
$$\sqrt{2} \cdot \left(\sqrt{20} - \frac{2}{3} \sqrt{45} + \frac{\sqrt{80}}{2} \right)$$

40 Fes aquestes divisions: [1 PAG. 28]

$$\mathbf{a} \frac{\sqrt{81 a^2}}{\sqrt{9}}$$

b
$$\frac{\sqrt[3]{64}}{\sqrt[3]{36}}$$

$$c \frac{\sqrt{75 a^3}}{\sqrt{3 a^2}}$$

$$\mathbf{d} \frac{\sqrt[5]{a^2b}}{\sqrt[5]{a^5b^4}}$$

🚮 Calcula les potències següents i simplifica el resultat: [🚹 PAG. 28]

a
$$(\sqrt[4]{2a^3})^3$$
 b $(3\sqrt[3]{5})^2$

b
$$(3\sqrt[3]{5})^2$$

$$\mathbf{c} \left(2\sqrt[5]{3a}\right)^3$$

$$\mathbf{d} \left(a \sqrt[4]{2a^2b} \right)^5$$

b
$$\sqrt[3]{\sqrt{a^3}}$$

$$c\sqrt{8\sqrt{2a}}$$

d
$$\sqrt[3]{125\sqrt{27}}$$

43 Simplifica: [PAG. 29]

a
$$\sqrt{5ab} \cdot \sqrt{2a} \cdot \sqrt{10ab}$$
 b $\sqrt[4]{a} \cdot (\sqrt{a})^4$

b
$$\sqrt[4]{a} \cdot \left(\sqrt{a}\right)^4$$

c
$$\frac{\sqrt{4}}{\sqrt[3]{2}}$$

$$\mathbf{d} \frac{\sqrt[3]{25}}{\sqrt{5}}$$

$$e^{\frac{\sqrt[6]{a^5b^3}}{\sqrt[3]{a^3b}}}$$

$$f\left(\sqrt[5]{a^4}\right)^{10}$$

$$g\left(\sqrt{\sqrt{4}}\right)^4$$

$$\mathbf{h} \left(\sqrt[3]{\sqrt[3]{a}} \right)^2 \cdot \sqrt[4]{a^{12}}$$

b
$$\frac{\sqrt{2}}{\sqrt{3}}$$

c
$$\frac{5}{3+\sqrt{2}}$$

$$\frac{1}{\sqrt{5}-\sqrt{3}}$$

Racionalitza: [PAG. 29] a $\frac{2}{\sqrt[3]{5}}$ b $\frac{\sqrt{2}}{\sqrt{3}}$ Racionalitza: [PAG. 29]

$$\frac{2}{\sqrt[3]{4}}$$

b
$$\frac{1+\sqrt{2}}{1-\sqrt{2}}$$

c
$$\frac{6}{2\sqrt{5}+\sqrt{2}}$$

d
$$\frac{\sqrt{2} + 3\sqrt{3}}{\sqrt{2} - 3\sqrt{3}}$$