

MATEMATIK TINGKATAN 1

BAB 3 : KUASA DUA, PUNCA KUASA DUA KUASA TIGA, PUNCA KUASA TIGA

STANDARD PEMBELAJARAN

Menentukan punca kuasa tiga suatu nombor tanpa menggunakan kalkulator

Cari nilai bagi setiap yang berikut tanpa menggunakan kalkulator

1. $\sqrt[3]{64}$ =

2. $\sqrt[3]{0.064}$ =

3. $\sqrt[3]{0.000064}$ =

4. $\sqrt[3]{27000}$ =

5. $\sqrt[3]{-0.216}$ =

6. $\sqrt[3]{\frac{8}{125}}$ =

7. $\sqrt[3]{-\frac{1}{27}}$ =

8. $\sqrt[3]{1\frac{61}{64}}$ =

9. $\sqrt[3]{\frac{24}{81}}$ =

10. $\sqrt[3]{-3\frac{3}{8}}$ =

11. $\sqrt[3]{-0.343}$ =

12. $\sqrt[3]{0.000512}$ =

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NOTA TEPI

Cari nilai bagi setiap yang berikut tanpa menggunakan kalkulator

$$\begin{aligned} 1) \sqrt[3]{0.027} &= \sqrt[3]{0.3 \times 0.3 \times 0.3} \\ &= \sqrt[3]{0.3^3} \\ &= 0.3 \end{aligned}$$

$$\begin{aligned} 2) \sqrt[3]{\frac{27}{64}} &= \sqrt[3]{\frac{3 \times 3 \times 3}{4 \times 4 \times 4}} = \sqrt[3]{\left(\frac{3}{4}\right)^3} \\ &= \frac{3}{4} \end{aligned}$$

$$\begin{aligned} 3) \sqrt[3]{-3\frac{3}{8}} &= \sqrt[3]{-\frac{27}{8}} = \sqrt[3]{\left(-\frac{3}{2}\right)^3} \\ &= -\frac{3}{2} = -1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} 4) \sqrt[3]{\frac{81}{192}} &= \sqrt[3]{\frac{\cancel{81}^{27}}{\cancel{192}^{64}}} = \sqrt[3]{\frac{27}{64}} \\ &= \sqrt[3]{\left(\frac{3}{4}\right)^3} = \frac{3}{4} \end{aligned}$$

