

Kuasa Dua, Punca Kuasa Dua, Kuasa Tiga dan Punca Kuasa Tiga

Standard Pembelajaran

3.2.9 Menjalankan pengiraan yang melibatkan penambahan, penolakan, pendaraban, pembahagian dan gabungan operasi tersebut ke atas kuasa dua, punca kuasa dua, kuasa tiga dan punca kuasa tiga.



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Cari nilai berikut dengan menggunakan kalkulator.

$$1) \left(-\frac{13}{24} \right)^2$$

$$= \frac{169}{576}$$

Arahan	Paparan Skrin Kalkulator
$\left(\right) (-) \frac{\square}{\square} 1 3 \blacktriangledown 2 4$ $\blacktriangleright \right) x^2 =$	

$$2) - \left(\sqrt{\frac{16}{169}} \right)$$

$$= -\frac{4}{13}$$

Arahan	Paparan Skrin Kalkulator
$(-) \left(\sqrt{\square} \frac{\square}{\square} 1 6 \blacktriangledown 1$ $6 9 \blacktriangleright \blacktriangleright \right) =$	

$$3) \left(2\frac{3}{15} \right)^3$$

$$= \frac{1331}{125}$$

Arahan	Paparan Skrin Kalkulator
$\left(\right) \text{SHIFT} \frac{\square}{\square} 2 \blacktriangleright 3 \blacktriangledown 1$ $5 \blacktriangleright \right) \text{SHIFT} x^2 =$	

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$$4) \sqrt[3]{-2\frac{314}{343}}$$

$$= -1\frac{3}{7}$$

Arahan	Paparan Skrin Kalkulator
$\boxed{\text{SHIFT}} \boxed{\sqrt[3]{}} \boxed{\text{SHIFT}} \boxed{\frac{\Box}{\Box}} \boxed{(-)} \boxed{2} \boxed{\rightarrow} \boxed{3}$ $\boxed{1} \boxed{4} \boxed{\nabla} \boxed{3} \boxed{4} \boxed{3} \boxed{=}$	
$\boxed{\text{SHIFT}} \boxed{\text{S}\nabla\text{D}}$	

Selesaikan setiap yang berikut

$$1) \sqrt{\frac{4}{5} \times 1\frac{61}{64}}$$

$$= \sqrt{\frac{4}{5} \times \frac{125}{64}}$$

$$= \sqrt{\frac{25}{16}}$$

$$= \sqrt{\frac{5^2}{4^2}}$$

$$= \frac{5}{4}$$

$$= 1\frac{1}{4}$$

Arahan	Paparan Skrin Kalkulator
$\boxed{\sqrt{}} \boxed{\frac{\Box}{\Box}} \boxed{4} \boxed{\nabla} \boxed{5} \boxed{\rightarrow} \boxed{\times} \boxed{\text{SHIFT}}$ $\boxed{\frac{\Box}{\Box}} \boxed{1} \boxed{\rightarrow} \boxed{6} \boxed{1} \boxed{\rightarrow} \boxed{6} \boxed{4}$ $\boxed{=}$	
$\boxed{\text{SHIFT}} \boxed{\text{S}\nabla\text{D}}$	

$$\begin{aligned}
 2) \quad & -\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}} \\
 & = -\frac{4}{9} \times \frac{3}{5} \times \sqrt[3]{-\frac{125}{64}} \\
 & = -\frac{4}{15} \times \left(-\frac{5}{4}\right) \\
 & = \frac{1}{3}
 \end{aligned}$$

Arahan	Paparan Skrin Kalkulator
$\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}}$ $\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}}$ $\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}}$ $\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}}$	$-\left(\frac{2}{3}\right)^2 \times \sqrt{\frac{9}{25}} \times \sqrt[3]{-1\frac{61}{64}}$ $\frac{1}{3}$

$$\begin{aligned}
 3) \quad & \left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3} \\
 & = \left(\frac{8}{3}\right)^2 - \frac{4}{5} + 4 \\
 & = \frac{64}{9} - \frac{4}{5} + 4 \\
 & = 6\frac{14}{45} + 4 \\
 & = 10\frac{14}{45}
 \end{aligned}$$

Arahan	Paparan Skrin Kalkulator
$\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$	$\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\frac{464}{45}$
$\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$	$\left(2\frac{2}{3}\right)^2 - \sqrt{\frac{64}{125}} + \sqrt[3]{4^3}$ $10\frac{14}{45}$



Latihan

Hitungkan setiap berikut dan berikan jawapan dalam bentuk perpuluhan.

1) $\sqrt{1\frac{19}{125}} \times \sqrt{5} - 2.3$

Jawapan : 0.1

2) $\sqrt[3]{512} \times \sqrt{64} \div \frac{1}{2} + (0.2)^2$

Jawapan : 128.04

3) $(-0.2)^2 + \sqrt[3]{343} + 6^3$

Jawapan : 223.04

4) $\sqrt[3]{3\frac{3}{8}} - \sqrt{1\frac{9}{16}} + 6^2$

Jawapan : 36.25

5) $\left(\frac{2}{5}\right)^2 - \frac{1}{7} \times \sqrt{49} + 0.25$

Jawapan : -0.59



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