

SOAL MATEMATIKA SMP TAHAP III, AKAR DAN PANGKAT OPEN BOOK 90 Menit

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Kerjakan Dengan Sifat Pangkat!

Pangkat Level I

1. $\frac{3^2 \cdot 4^{-2} \cdot 5}{2^{-4} \cdot 3^3 \cdot 25}$
2. $3^{-1} - 3^{-3}$
3. $(\frac{1}{13})^0 (\frac{2}{3})^6 (\frac{4}{9})^{-3}$
4. $(\frac{2}{3})^3$
5. $\frac{3}{3^{-2}}$

Pangkat Level II

1. $\frac{x^2 b^2 c^2}{x b c^{-1}}$
2. $\frac{25u^{12}p^{24}q}{125up^{15}q^{16}}$
3. $(\sqrt{a^2})^2 \cdot \frac{1}{a^{-1}}$
4. $\sqrt{-a^2 - (-a)^2 + -a^2}$
5. $\frac{a^{-6}}{a^{-7}}$

Pangkat Level III

1. $\left(\frac{a^4 b^{12} c^4}{a^{-10} b^{-5} c^{-4}}\right)^{-\frac{1}{2}}$
2. $\left(\frac{x^{-14} \sqrt[12]{x^4} x^8}{x^{-8} x^{-1/5} x^{-1/4}}\right)^{-\frac{1}{2}}$
3. $\left(\sqrt{a} \cdot \sqrt{a^4}\right)^{-2}$
4. $((a^2)^{16})^{17}$
5. $p^{1/2} p^0 p^{1/4}$

Pangkat Level IV

1. $(625z^{\frac{2}{8}}f^{\frac{1}{4}})^{\frac{1}{2}}$
2. $(\sqrt[14]{x^7})^7$
3. $\sqrt{p}^{\sqrt{2}} \cdot \sqrt{p}^{3\sqrt{2}}$
4. $\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\frac{1}{2}}}}}}}$
5. $\frac{z^\pi \cdot z^{2\pi}}{z^{3\pi}}$