

LATIHAN SOAL BILANGAN BERPANGKAT

NAMA =

KELAS =

Kerjakan soal-soal berikut dalam buku latihan!

1. Tentukan nilai dari:

a. $3^4 = \square$

b. $-2^5 = \square$

c. $(-5)^2 = \square$

d. $5^{-3} = \square$

e. $\frac{1}{2^4} = \square$

f. $\frac{1}{3^{-2}} = \square$

g. $\frac{1}{2^{-6}} = \square$

h. $\left(\frac{2}{3}\right)^4 = \square$

i. $\left(\frac{3}{4}\right)^{-2} = \square$

j. $\left(\frac{2}{5}\right)^{-3} = \square$

Kerjakanlah soal-soal berikut.

2. Sederhanakan bentuk pangkat berikut.

a. $m^5 \times m^7 = \square$

b. $2a^5 \times 5a^2 \times 3a = \square$

c. $\frac{1}{2}a^4 \times 5a^3 \times 3a = \square$

d. $(5^3x^5y) \times (5^2y^4) = \square$

e. $(32p^3q^2r) \times \left(\frac{1}{4}p^4qr^6\right) = \square$

3. Sederhanakan bentuk pangkat berikut.

a. $5^{10} : 5^8 = \square$

b. $a^3b : ab^4 = \square$

c. $(8p^3q^5r^2) : (4pq^2r^2) = \square$

d. $\frac{27x^3y^5z^2}{3xy^2z} = \square$

4. Tentukan nilai dari:

a. $2^4 \times 2^3 = \square$

b. $(-2)^3 \times (-2)^5 = \square$

c. $3^2 \times 3^{-5} \times 3^3 = \square$

d. $\left(\frac{1}{2}\right)^3 \times \left(\frac{1}{2}\right)^2 = \square$

e. $\left(\frac{1}{2}\right)^7 \times \left(\frac{1}{2}\right)^{-4} = \square$

f. $\frac{7^5}{7^6} = \square$

g. $\left((2)^3\right)^{-2} = \square$

h. $\frac{4^5 \times 5^6 \times 3^4}{3^2 \times 4^3 \times 5^4} = \square$

i. $\frac{49^3 \times 8^6}{7^5 \times 2^{16}} = \square$

j. $\frac{2^5 \times 25^6 \times 9^4}{16^2 \times 5^{12} \times 27^2} = \square$