BAB : INDEKS

LATIHAN 1.2

Permudahkan.
Simplify.

HP5.2(iii) **BAND 3**

CONTOH

$9m^7 \times n \times n^3 \times (-2m)$

$= [9 \times (-2)]m^{7+1}\, n^{1+3}$

$= -18m^8\, n^4$

1. $2^6 \times 6^3 \times 15^4 \times 2 \times 6^2$

$= 2 \quad \times 6 \quad \times 15$

$= 2 \quad \times 6 \quad \times 15$

2. $3h^2 \times k^3 \times 4h \times \frac{5}{12}k^4$

$= \left(3 \times 4 \times \frac{5}{12}\right)h \quad k$

$= 5h \quad k$

5.3 Pembahagian Nombor dalam Tatatanda Indeks

Permudahkan.
Simplify.

HP5.3(ii) **BAND 3**

CONTOH

$27y^9 \div 9y^8$

$= \left(\frac{27}{9}\right)y^{9-8}$

$= 3y$

1. $4^8 \div 4^3$

$= 4$

$= 4$

2. $\frac{7^{10}}{7}$

$= 7$

$= 7$

C. Permudahkan.
Simplify.

HP5.4(iii) **BAND 3**

CONTOH

$(3^4 \times 7 \times 12^5)^2$

$= 3^{4\times2} \times 7^{1\times2} \times 12^{5\times2}$

$= 3^8 \times 7^2 \times 12^{10}$

1. $(4^2 \times 9^4)^3$

$= 4^{2\times3} \times 9^{4\times3}$

$= 4 \quad \times 9$

2. $(-3a^7bc^3)^3$

$= (-3)^{1\times3}a^{7\times3}b^{1\times3}c^{3\times3}$

$= -27a \quad b \quad c$

D. Permudahkan.
Simplify.

HP5.4(iii) **BAND 3**

CONTOH

$\left(\frac{3d^5}{4e}\right)^3 = \frac{3^{1\times3}d^{5\times3}}{4^{1\times3}e^{1\times3}}$

$= \frac{27d^{15}}{64e^3}$

1. $\left(\frac{7}{9^2}\right)^5 = \frac{7^{1\times5}}{9^{2\times5}}$

$= \frac{7}{9}$

2. $\left(\frac{7w^2x}{8y^3}\right)^2 = \frac{7^{1\times2}w^{2\times2}x^{1\times2}}{8^{1\times2}y^{3\times2}}$

$= \frac{49w \quad x}{64y}$

LIVEWORKSHEETS