Jawapan Praktis Ekstra Sumatif Bab 1

1. $4^5 = 1\,024$
$k = 4$

2. $\left(\frac{3}{5}\right)^{-2} = \left(\frac{5}{3}\right)^2$
$= \frac{25}{9}$

3. $16^{\frac{3}{4}} = \sqrt[4]{16^3}$

4. $36^{\frac{3}{2}} = 6^3$
Maka / *Thus*,
$\square = 3$

5. $\frac{1}{6}m^5 \times 24m$
$= \frac{1}{6} \times 24 \times m^{5+1}$
$= 4m^6$

6. $10m^x \div 2m^3 = 5m^6$
$5m^{x-3} = 5m^6$
$x - 3 = 6$
$x = 9$

7. $h^3 = 216^{\frac{4}{3}} \times 36^{-\frac{1}{2}}$
$h^3 = (6^3)^{\frac{4}{3}} \times (6^2)^{-\frac{1}{2}}$
$h^3 = 6^4 \times 6^{-1}$
$h^3 = 6^{4+(-1)}$
$h^3 = 6^3$
$h = 6$

8. $(t^2)^{-4} \times t^7 \div \frac{1}{t^2}$
$= t^{-8+7-(-2)}$
$= t$

9. $(p^2q^{-1})^{\frac{3}{2}} \div p^3q^{-\frac{1}{2}} \times p^5$
$= p^3q^{-\frac{3}{2}} \div p^3q^{-\frac{1}{2}} \times p^5$
$= p^{3-3+5}q^{-\frac{3}{2}-\left(-\frac{1}{2}\right)}$
$= p^5q^{-1}$
$= \frac{p^5}{q}$

10. $\frac{9^4 \times 4}{3^{-5} \times 2^4}$
$= \frac{(3^2)^4 \times 2^2}{3^{-5} \times 2^4}$
$= 3^{8-(-5)} \times 2^{2-4}$
$= 3^{13} \times 2^{-2}$