$$
\begin{gathered}
\text { 9-5-13 } \\
\text { What does } \frac{a^{4} b^{2}}{a^{2} b^{3}} \text { mean? } \\
\frac{\text { driy }}{a+6 a b b} \\
\frac{a^{2}}{b} \\
\text { (1)S:mpl:fy } \frac{6 a^{2} b^{3}}{8 a b^{4}} \\
\frac{3 a a p p b}{4 a l o l p b} \\
4
\end{gathered}
$$

(2)

$$
\begin{aligned}
& \text { Simplify } \frac{a^{3} b}{a^{5} b^{2}} \\
& \frac{\text { akha }}{\text { dabaa } \Delta b}=\frac{1}{a^{2} b}
\end{aligned}
$$

(3)

$$
\begin{aligned}
& \text { Simplify } \frac{a^{2} b^{2} a b}{a^{4} b^{5} a} \\
& \frac{\text { ad } b b a b}{d a a a b b b b b a} \frac{1}{a^{2} b^{2}}
\end{aligned}
$$

What does $b^{-2}$ meen?

$$
\frac{1}{b^{2}}
$$

What is $3^{-2}=\frac{1}{3^{2}}=\frac{1}{9}$

$$
\begin{aligned}
& 2^{-2}=\frac{1}{2^{2}}=\frac{1}{4} \\
& 5^{-1}=\frac{1}{5}
\end{aligned}
$$

(4) Simpl: $f_{x} a^{2} \cdot \frac{n^{-3}}{d} \cdot\left(a^{-4}\right] n^{2}$
$a^{2} \cdot \frac{1}{n^{3}} \frac{1}{4} \cdot \frac{n^{2}}{1}=\frac{a^{2} n^{2}}{n^{3} a^{4}}$

$$
\frac{h \alpha a k}{n a x a k a a}=\frac{1}{n a^{2}}
$$

(5) $n^{-1} \cdot n^{3}$

$$
\frac{n^{3}}{n}=n^{2}
$$

(6) $\frac{a^{-2} c^{3}}{a^{4} c^{-1}}=\frac{c^{3} c}{a^{2} a^{4}}$

$$
=\frac{c^{4}}{a^{6}}
$$

(7) $\frac{\left.a^{-2}\right) b^{2} c}{a^{2}\left(b^{-3} c\right.}$

$$
\frac{b^{2} b^{3}}{a^{2} c a^{2} c}=\frac{b^{5}}{a^{4} c^{2}}
$$

(8) $\left(\frac{a^{2}}{b}\right)^{-2}=\left(\frac{a^{2}}{b}\right)^{-1 \cdot 2}$

$$
\begin{array}{r}
\left(\frac{b}{a^{2}}\right)^{2} \\
\frac{b}{a^{2}} \cdot \frac{b}{a^{2}}=\frac{b^{2}}{a^{4}}
\end{array}
$$

$$
\text { (a) }\left(\frac{3 a}{5 y^{2}}\right)^{-2}=\left(\frac{3 a}{5 y^{2}}\right)^{-1 \cdot 2}
$$

$$
\left(\frac{5 y^{2}}{3 a}\right)^{2}
$$

$$
\frac{5 y^{2}}{3 a} \cdot \frac{5 y^{2}}{3 a}=\frac{25 y^{4}}{9 a^{2}}
$$

$$
\begin{aligned}
& \text { 9-5-13 } \\
& 4^{\text {ti }} \text { Trig } \\
& \text { What does } \frac{a^{2} b}{a b^{3}} \text { mean? } \\
& \frac{d a \beta}{a k b b}=\frac{a}{b^{2}} \\
& \text { Simplify } \frac{a^{2} b^{2} c}{a^{3} b c^{2}} \\
& \frac{\alpha d b b c}{q \& a b c c}=\frac{b}{a c} \\
& \text { (1) Simplify } \frac{4 a^{3}}{6 a^{5}} \\
& \frac{24 a a k}{36 a k k a a} \frac{2}{3 a^{2}} \\
& \text { (2) Simplify } \frac{-6 a^{3} b}{8 a b} \\
& \frac{-6 a a a b}{8 a b}=\frac{-3 a^{2}}{4} \\
& \text { What does } a^{-2} \text { mean? } \\
& \frac{1}{a^{2}} \\
& \therefore 3^{-2}=\frac{1}{3^{2}}=\frac{1}{9} \\
& 2^{-2}=\frac{1}{2^{2}}=\frac{1}{4} \\
& 10^{-3}=\frac{1}{10^{3}}=\frac{1}{1000}
\end{aligned}
$$

$$
\begin{aligned}
& \text { simplify } a^{5} \cdot a^{-2} \\
& \frac{a^{5}}{a^{2}}=\frac{\text { anaca }}{d a}=a^{3}
\end{aligned}
$$

(4) Simplify $a^{-3} \cdot b^{2} \cdot a^{2} \cdot b^{-4}$

$$
\frac{b^{2} \cdot a^{2}}{a^{3} b^{4}}=\frac{1}{a b^{2}}
$$

(5) Simplify $\frac{\sqrt{a^{-3} b}}{a^{2} b^{-2}}$

$$
\frac{b b}{a^{3} a^{2}}=\frac{b^{2}}{a^{5}}
$$

(6) Simpl:fy $\frac{a^{2}\left[b^{-3}\right]}{a^{-1} b c^{-4}}$

$$
\begin{aligned}
& \frac{a c^{4} a^{2} c}{b^{3} b} \\
& \frac{a^{3} c^{5}}{b^{4}}
\end{aligned}
$$

(7) Simplify $\frac{a^{-2} b}{a^{-3} b^{-2}}$
$\frac{a^{3} b b^{2}}{a^{2}}=a b^{3}$
(8) Simplify $\left(\frac{a^{2}}{3}\right)^{-2}=\left(\frac{a^{2}}{3}\right)^{-1 \cdot 2}$

$$
\left(\frac{3}{a^{2}}\right)^{2}=\frac{3}{a^{2}} \cdot \frac{3}{a^{2}}=\frac{9}{a^{4}}
$$

(9) Simplify $\left(\frac{a^{3}}{b^{2}}\right)^{-2}$
$\left(\frac{a^{3}}{b^{2}}\right)^{-1 \cdot 2}=\left(\frac{b^{2}}{a^{3}}\right)^{2}=\frac{b^{2}}{a^{3}} \cdot \frac{b^{2}}{a^{3}}=\frac{b^{4}}{a^{6}}$

