Please work on the worksheet I gave you on your way in. No groups.

Answers to 5.1-5.2 Practice (ID: 1)

1) $16 x^{3} y^{8}$
2) $\frac{3 v^{7}}{u^{3}}$
3) $x^{5}$
4) $24 x^{5} y^{5}$
5) $8 u^{12} v^{4}$
6) $\frac{x^{3}}{y^{3}}$
7) $\frac{2 y^{4}}{x^{4}}$
8) $2 u^{7}$
9) $\frac{x^{16} y^{8}}{81}$
10) $\frac{27 v^{3}}{u^{9}}$
11) $\frac{9 x^{4}}{y^{6}}$
12) $a^{4} b^{8}$
13) $\frac{a^{8}}{16 b^{13}}$
14) $\frac{y^{32}}{4096 x^{40}}$
15) $\frac{8 y^{10}}{x^{11}}$
16) $\frac{2 x^{4}}{y^{6}}$
17) $\frac{x^{16}}{y^{12}}$
18) $\frac{4 v^{12}}{u^{14}}$
19) $\frac{16 y^{8}}{x^{44}}$
20) $\frac{16}{x^{8}}$
21) $\frac{8}{x^{5} y^{5}}$
22) $\frac{1}{6 b^{6} a}$
23) $\frac{x^{3}}{18 y^{4}}$
$+4 v-30$
24) $10 x^{2}-4 x-32$
25) $12 b^{3}-40 b^{2}+10 b+28$
26) $12 a^{5} b^{5}$
27) $14 n^{4}+58 n^{3}+82 n^{2}+24 n-24$
28) $4 n^{4}+5 n+15$
29) $7 n^{4}+5 n^{2}+8 n+6$

$$
\begin{aligned}
& \frac{81 p^{6} q^{5}}{\left(3 p^{\prime} q\right)^{2}}=\frac{81 p^{6}\left(q^{5} q^{2}\right.}{3^{4}\left(q^{2}\right)} \\
& \frac{81 p^{2} q^{3}}{q}=q^{2} q^{3} \\
& \left(-6 x^{6} x^{3}\right)^{-2} \\
& \left(-2 x^{3}\right)^{-2} \\
& (-2)^{-2} \cdot x^{-6}
\end{aligned}
$$

$$
\frac{1}{(-2)^{2} x^{6}}
$$

(1)

$$
\begin{aligned}
& 4 x^{2} y^{4} \cdot \theta^{6} x y^{4} \\
& 16 x^{3} y^{8} \\
& 4^{2} x 4^{5} x=4^{7} x^{2} \\
& L^{2} \cdot 4^{5}=4
\end{aligned}
$$

(2)

$$
\begin{aligned}
& u^{-1} v^{4} \cdot 3^{1} \cdot u^{-2} \cdot v^{3} \\
& 3 u^{-3} v^{7}=\frac{3 v^{7}}{u^{3}}
\end{aligned}
$$

$$
\begin{aligned}
& \text { (9) }\left(3^{1} x^{-4} y^{-2}\right)^{-4} \\
& 3^{-4} x^{16} y^{8} \\
& \frac{1}{81} \cdot x^{16} y^{8} \frac{x^{16} y^{8}}{3^{4}}=\frac{1 x^{16} y^{8}}{81} \\
& 3^{1-4}=0.0123456789
\end{aligned}
$$

( $\frac{1}{81}$
(10)

$$
\begin{aligned}
& \left(3 v^{1} u^{-3}\right)^{3} \\
& 3^{3} v^{3} u^{-9} \\
& \frac{27 v^{3}}{u^{9}}
\end{aligned}
$$

Ex. $\left(-5^{\prime} x^{\prime} y^{-2}\right)^{-3}$

$$
\begin{aligned}
& (-5)^{-3} x^{-3} y^{6} \\
& \frac{y^{6}}{(-5)^{3} x^{3}} \\
& \frac{y^{6}}{125 x^{3}}
\end{aligned}
$$

(14)

$$
\begin{aligned}
& \left(\frac{\left(2^{1} x^{3} y^{-3}\right)^{-3}}{x y}\right)^{4} \\
& \left(\frac{2^{-3} x^{-9} y^{9}}{x y^{1}}\right)^{4} \\
& \left(\frac{x^{-10} y^{8}}{2^{3}}\right)^{4} \\
& \left(\frac{y^{8}}{x^{10} \cdot 2^{3}}\right)^{4} \\
& \frac{y^{32}}{x^{10} z^{12}}
\end{aligned}
$$

$$
\frac{y^{32}}{4096 x^{40}}
$$

(15) $\frac{()^{3}}{()^{2}} \quad \frac{2^{3}}{5^{2}}=\frac{8}{25}$

