
Bellwort

$$
1-18-19
$$

Simplify.

1) $\frac{9 n^{5}}{27 n^{5}}$

$$
\frac{9}{27}=\frac{1}{3}
$$

$$
n^{5-5}=n^{0}=1
$$

$$
\frac{1}{3}(1)=\frac{1}{3}
$$

(2) $\frac{16 x^{4}}{12 x^{11}}$


Dividing exponents with two variables

$$
\text { 1) } \frac{18 x^{6} y^{9}}{8 x^{3} y^{5}}
$$



$$
\frac{18}{8}=\frac{9}{4}
$$



$$
\begin{gathered}
\frac{24}{202}=\frac{12}{10}=2=\frac{6}{5} \\
x^{6-4}=x^{2} \\
\frac{6 x^{2} y^{5}}{5}
\end{gathered}
$$



$$
\begin{aligned}
& 5=5^{1}=5^{1 \cdot 3} \\
& \text { 3) }\left(\frac{5 x^{5}}{8 x^{3}}\right)^{3} \\
& \frac{5^{3} x^{5.3}}{8^{3} x^{3.3}} \\
& \frac{125 x^{15}}{512 x^{9}} \quad x^{15-9}=x^{6} \\
& \frac{125 x^{6}}{512} \\
& x^{6-9}=x^{-3} \\
& \begin{array}{l}
\text { 1. Dist tribute exponent } \\
\text { into ( ) } \\
\text { 2. Multi ply exponents }
\end{array} \\
& \text { 3. subtract exponents } \\
& 4 \text { place exponent. }
\end{aligned}
$$

