Use power rule and simplify. Write your answers in positive exponents.

1) \((6t^8m^7n^9)^2\)  
2) \((8t^{-6}u^3v^{-1})^{-1}\)  
3) \((4l^4m^{-2}n^{-9})^3\)

4) \((2a^{-2}b^{-1}c^3)^{-7}\)  
5) \((6s^5t^8u^{-1})^{-2}\)  
6) \((k^6l^{-7}m^{-4})^{10}\)

7) \((w^{-6}x^7y^{-10})^6\)  
8) \((w^6x^7y^{-10})^{-6}\)  
9) \((k^6m^{-10}n^{-4})^{-1}\)

10) \((w^{-1}x^7y^{-6})^{-4}\)  
11) \((4l^{-8}m^3)^2\)  
12) \((t^{-10}u^5v^4)^{-6}\)

13) \((t^{-10}u^5v^4)^{-6}\)

14) \((u^8v^{-6}w^{-2})^{-6}\)  
15) \((8u^{-1}v^{-10}w^6)^2\)  
16) \((u^8v^{-6}w^{-2})^{-6}\)
1) \((6t^8m^7n^9)^2\)

\[= 36t^{16}m^{14}n^{18}\]

2) \((8t^{-6}u^3v^{-1})^{-1}\)

\[= \frac{t^6v}{8u^3}\]

3) \((4t^4m^{-2}n^{-9})^3\)

\[= \frac{64t^{12}}{m^6n^{27}}\]

4) \((2a^{-2}b^{-1}c^3)^{-7}\)

\[= \frac{a^{14}b^{7}}{128c^{21}}\]

5) \((6s^5t^8u^{-1})^{-2}\)

\[= \frac{k^{60}}{l^{70}m^{40}}\]

6) \((k^6l^{-7}m^{-4})^{10}\)

\[= \frac{1}{128x^{35}y^{21}z^{63}}\]

7) \((w^{-6}x^7y^{-10})^6\)

\[= \frac{x^{42}}{w^{36}y^{60}}\]

8) \((t^{-10}u^5v^4)^{-6}\)

\[= \frac{t^{60}}{u^{30}v^{24}}\]

9) \((w^{-1}x^7y^{-6})^{-4}\)

\[= \frac{w^4y^{24}}{x^{28}}\]

10) \((u^8v^{-6}w^{-2})^{-6}\)

\[= \frac{v^{36}w^{12}}{u^{48}}\]

11) \((8u^{-1}v^{-10}w^6)^2\)

\[= \frac{64w^{12}}{u^2v^{20}}\]

12) \((t^7u^{-3}v^{-4})^{-6}\)

\[= \frac{u^{18}v^{24}}{t^{42}}\]