

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 10C.1 - Dividing Powers with Like Bases / Fractions to Powers

#1-9, Simplify.

1. $\frac{-r^{10}}{-7r^9}$

2. $\left(\frac{4x}{n^8}\right)^3$

3. $\left(\frac{-21a^5b^{12}}{14a^2b}\right)^2$

4. $\left[\frac{m^7n^5}{(mn)^3}\right]^4$

5. $\left(\frac{16x^4y^7}{-4x^2y^3}\right)^4$

6. $\left(\frac{-12h^{15}j^{20}k^{25}}{20h^{10}j^{10}k}\right)^3$

7. $\left(\frac{11p^q}{g^q}\right)^d$

8. $\left(\frac{h^{10}p^9}{k^r}\right)^r$

9. $\left(\frac{144d^8(e^4f)^2}{48d^3e^6f}\right)\left(\frac{36d^{10}e^{11}f^9}{12d^4ef^5}\right)^2$