

Sample Quiz

Express each of the following without decimals or negative exponents in their simplest form

$$\textcircled{1} (2x^{-3}y)^{-2}$$

$$\textcircled{4} \left[\frac{(2x^3y)^5}{6x^{-3}y^6} \right]^{-3}$$

$$\textcircled{2} \left(\frac{1}{4}x^5y \right)^3 (2x^{-4}y^6)^{-3}$$

$$\textcircled{3} \left[\frac{5x^3y^{-4}}{15x^{-3}y} \right]^{-4}$$

Write each of the following without a fraction in its simplest form

$$\textcircled{4} \left[\frac{5x^4y}{z^6} \right]^{-2}$$

$$\textcircled{5} \left[\frac{x^9y^3}{16z} \right]^4$$

Express each of the following without negative exponents

$$\textcircled{6} \quad 12x^4y^{-3}z^8$$

$$\textcircled{7} \quad 16x^{-4}y^2z^{-12}$$

Simplify completely & express without decimals or negative exponents. Assume v & $w > 0$

$$\textcircled{8} \quad \left[\frac{(3^v x^2 y^{3w})^0 \cdot (9x^{-3}y^4)^{-v}}{(12x^{4w}y^{-v})^{-w}} \right]^2$$