$$a^0=1$$
, $a^{-n}=\frac{1}{a^n}$

$$2 \frac{a^m}{a^n} = a^{m-n}$$

$$(a^m)^n = a^{mn}$$

$$(ab)^n = a^n b^n$$

$$(ab)^n = a^n b^n$$

$$\frac{a^{-n}}{b} = \left(\frac{b}{a}\right)^{n}$$

$$\frac{a^{-n}}{b^{-m}} = \frac{b^{m}}{a^{n}}$$

Properties of non roots:

$$C)\left(\frac{\times^4 z^2}{4 y^5}\right)\left(\frac{2 \times^3 y^2}{z^3}\right)^2$$

Simplify Each Exprission

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

e)
$$\frac{5^{3/2}}{5^{1/2}}$$