

NAME: Key

UNIT 6 – PRE-ASSESSMENT

SIMPLIFY THE FOLLOWING:

$$y^3 \cdot y^4 = y^7$$

$$(2x^2y^4)^4 = 2^4 x^8 y^{16} = 16x^8 y^{16}$$

$$(x^5)^3 \cdot x \cdot x^5 = x^{15} \cdot x^1 \cdot x^5 = x^{21}$$

$$\frac{x^4}{x^{12}} = \frac{1}{x^8}$$



$$3^{-3} = \frac{1}{3^3} = \frac{1}{27}$$

$$\left(\frac{y}{3}\right)^2 = \frac{y^2}{3^2} = \frac{y^2}{9}$$

$$\frac{x}{y^4} \cdot \frac{x^3}{y^5} = \frac{x^4}{y^9}$$

$$\frac{c^6}{d^4} \cdot \frac{d^2}{c^5} = \frac{c}{d^2}$$

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