

Student Name: _____

Score: _____

Power Rule Worksheet

Rewrite the following as single exponent using power rule:

Work Space

$$(-z^4)^2 = \underline{\hspace{2cm}}$$

$$(s^3)^{-1} = \underline{\hspace{2cm}}$$

$$\left(\left(\frac{x}{y}\right)^{-7}\right)^{-5} = \underline{\hspace{2cm}}$$

$$(-d^3)^{-7} = \underline{\hspace{2cm}}$$

$$(s^{-9})^0 = \underline{\hspace{2cm}}$$

$$\left(\left(-\frac{m}{n}\right)^4\right)^{-1} = \underline{\hspace{2cm}}$$

$$(a^{-13})^{-2} = \underline{\hspace{2cm}}$$

$$(q^8)^5 = \underline{\hspace{2cm}}$$

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Answers

$$(-z^4)^2 = z^8$$

$$(s^3)^{-1} = \frac{1}{s^3}$$

$$\left(\left(\frac{x}{y}\right)^{-7}\right)^{-5} = \left(\frac{x}{y}\right)^{35}$$

$$(-d^3)^{-7} = \frac{1}{(-d)^{21}}$$

$$(s^{-9})^0 = s^0$$

$$\left(\left(-\frac{m}{n}\right)^4\right)^{-1} = \left(\frac{n}{m}\right)^4$$

$$(a^{-13})^{-2} = a^{26}$$

$$(q^8)^5 = q^{40}$$