

Student Name: _____

Score: _____

Quotient Rule Worksheet

Sheet 3

Rewrite the following as single exponent using quotient rule:

Work Space

Example: $x^7x^{-3} = x^{7-3} = x^4$

$a^8a^{-6} =$ _____

$s^9s^{-8} =$ _____

$y^{-6}y^2 =$ _____

$t^4t^{-5} =$ _____

$z^{-11}z^6 =$ _____

$m^5m^{-1} =$ _____

$b^4b^{-3} =$ _____

$k^{12}k^{-6} =$ _____

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Answer key

Quotient Rule Worksheet

Sheet 3

$$a^8 a^{-6} = a^2$$

$$s^9 s^{-8} = a^1$$

$$y^{-6} y^2 = \frac{1}{y^4}$$

$$t^4 t^{-5} = \frac{1}{t^1}$$

$$z^{-11} z^6 = \frac{1}{z^5}$$

$$m^5 m^{-1} = m^4$$

$$b^4 b^{-3} = b^1$$

$$k^{12} k^{-6} = k^6$$

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