Course 3 Quiz: 1.4 and 1.5 Zero Exponent

Simplify each expression. Write your answer in exponential notation.

$$\bigcirc \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)$$

$$\underbrace{\left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^3}_{\left(\frac{2}{5}\right)^5 \cdot \left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^3}$$

$$y^{14} \div y^{11}$$

Use the power of product property to simplify numerical expressions.

Solve

$$(7)$$
 14° ÷ 14°

Solve

$$\frac{7^3 \cdot 7^4}{7^7}$$

$$3^2 \cdot 3^0 \cdot 3^2$$

Extra Credit

$$\frac{(5^3)^{-4}}{10^{-8}\cdot(-2)^5}$$