



Murtoeksponenttien yksinkertaistaminen  
(kertolasku)

Nimi: \_\_\_\_\_

Päivämäärä: \_\_\_\_\_ Pisteet: \_\_\_\_\_

$$\left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^{-10}$$

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-2} \cdot \left(\frac{3}{7}\right)^{-9} \cdot \left(\frac{3}{7}\right)^{-4}$$

$$\left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^4$$

$$\left(\frac{4}{5}\right)^{-3} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-8}$$

$$\left(\frac{1}{2}\right)^{-5} \cdot \left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^{-6}$$

$$\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^{-1}$$

$$\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^7$$

$$\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{-3}$$

$$\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^7$$

$$\left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^{11} \cdot \left(\frac{3}{5}\right)^{-8}$$

$$\left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-8}$$

$$\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-5}$$

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^8$$

$$\left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-4}$$

$$\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^3 \cdot \left(\frac{2}{9}\right)^6$$