



Murtoeksponenttien yksinkertaistaminen
(kertolasku)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-2}$$

$$\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right) \cdot \left(\frac{2}{3}\right)^8$$

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-5}$$

$$\left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-4}$$

$$\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^7$$

$$\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{-4}$$

$$\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{-3}$$

$$\left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-2}$$

$$\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^9$$

$$\left(\frac{1}{9}\right)^{-5} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^4$$

$$\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^7$$

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

$$\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^8$$

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{10}$$

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



Murtoeksponenttien yksinkertaistaminen
(kertolasku)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\left(\frac{1}{7}\right)^{-10} \cdot \left(\frac{1}{7}\right)^{-2}$$
$$\left(\frac{1}{7}\right)^{-12}$$

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

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{-5}$$
$$\left(\frac{1}{2}\right)^{-16}$$

$$\left(\frac{1}{8}\right)^7 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-4}$$
$$\left(\frac{1}{8}\right)^5$$

$$\left(\frac{1}{9}\right)^9 \cdot \left(\frac{1}{9}\right)^5 \cdot \left(\frac{1}{9}\right)^7$$
$$\left(\frac{1}{9}\right)^{21}$$

$$\left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{-4}$$
$$\left(\frac{2}{3}\right)^{-9}$$

$$\left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^{10} \cdot \left(\frac{1}{5}\right)^{-3}$$
$$\left(\frac{1}{5}\right)^{19}$$

$$\left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^2 \cdot \left(\frac{1}{6}\right)^{-2}$$
$$\left(\frac{1}{6}\right)^{-4}$$

$$\left(\frac{1}{9}\right)^{11} \cdot \left(\frac{1}{9}\right)^9$$
$$\left(\frac{1}{9}\right)^{20}$$

$$\left(\frac{1}{9}\right)^{-5} \cdot \left(\frac{1}{9}\right)^8 \cdot \left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^4$$
$$\left(\frac{1}{9}\right)^{11}$$

$$\left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^7$$
$$\left(\frac{1}{8}\right)^{21}$$

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

$$\left(\frac{1}{6}\right)^{-3} \cdot \left(\frac{1}{6}\right)^8$$
$$\left(\frac{1}{6}\right)^5$$

$$\left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^{10}$$
$$\left(\frac{4}{7}\right)^{20}$$

$$\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^6$$
$$\left(\frac{4}{5}\right)^0$$