



Murtoeksponenttien yksinkertaistaminen
(kertolasku)

Nimi: _____

Päivämäärä: _____ Pisteet: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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$$\left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^{-10}$$
$$\left(\frac{3}{5}\right)^{-20}$$

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

$$\left(\frac{1}{7}\right)^{-1} \cdot \left(\frac{1}{7}\right)^4$$
$$\left(\frac{1}{7}\right)^3$$

$$\left(\frac{4}{5}\right)^{-3} \cdot \left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^{-8}$$
$$\left(\frac{4}{5}\right)^{-17}$$

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

$$\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^6 \cdot \left(\frac{4}{7}\right)^{-1}$$
$$\left(\frac{4}{7}\right)^{12}$$

$$\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^7$$
$$\left(\frac{1}{3}\right)^4$$

$$\left(\frac{1}{3}\right)^3 \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^{-3}$$
$$\left(\frac{1}{3}\right)^{-2}$$

$$\left(\frac{2}{3}\right)^4 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^7$$
$$\left(\frac{2}{3}\right)^6$$

$$\left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^{11} \cdot \left(\frac{3}{5}\right)^{-8}$$
$$\left(\frac{3}{5}\right)^{12}$$

$$\left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^2 \cdot \left(\frac{2}{5}\right)^{-8}$$
$$\left(\frac{2}{5}\right)^{-1}$$

$$\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-5}$$
$$\left(\frac{1}{3}\right)^{-16}$$

$$\left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^{10} \cdot \left(\frac{3}{7}\right)^8$$
$$\left(\frac{3}{7}\right)^{35}$$

$$\left(\frac{1}{9}\right)^4 \cdot \left(\frac{1}{9}\right)^{-4}$$
$$\left(\frac{1}{9}\right)^0$$

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