



Murtoeksponenttien yksinkertaistaminen  
(kertolasku)

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

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

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-2} \cdot \left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{-4}$$

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

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^4 \cdot \left(\frac{2}{7}\right)^{-1}$$

$$\left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^4$$

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

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

$$\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{-6}$$

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

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{-1}$$

$$\left(\frac{1}{9}\right)^{-2} \cdot \left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^{11}$$

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

$$\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^{-9}$$

$$\left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{-10}$$

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

$$\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-10}$$



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

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$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-2} \cdot \left(\frac{1}{6}\right) \cdot \left(\frac{1}{6}\right)^{-4}$$
$$\left(\frac{1}{6}\right)^0$$

$$\left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-4}$$
$$\left(\frac{2}{3}\right)^{-16}$$

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^4 \cdot \left(\frac{2}{7}\right)^{-1}$$
$$\left(\frac{2}{7}\right)^{-6}$$

$$\left(\frac{1}{5}\right)^{11} \cdot \left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^4$$
$$\left(\frac{1}{5}\right)^{21}$$

$$\left(\frac{1}{5}\right)^{-6} \cdot \left(\frac{1}{5}\right)^{-1}$$
$$\left(\frac{1}{5}\right)^{-7}$$

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

$$\left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^4 \cdot \left(\frac{1}{8}\right)^{-6}$$
$$\left(\frac{1}{8}\right)^{-11}$$

$$\left(\frac{1}{7}\right)^{10} \cdot \left(\frac{1}{7}\right)^7$$
$$\left(\frac{1}{7}\right)^{17}$$

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{-1}$$
$$\left(\frac{1}{9}\right)^{-11}$$

$$\left(\frac{1}{9}\right)^{-2} \cdot \left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-9} \cdot \left(\frac{1}{9}\right)^{11}$$
$$\left(\frac{1}{9}\right)^{-6}$$

$$\left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-8} \cdot \left(\frac{1}{3}\right)^{-10}$$
$$\left(\frac{1}{3}\right)^{-17}$$

$$\left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^{-9}$$
$$\left(\frac{1}{5}\right)^{-11}$$

$$\left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^{-10} \cdot \left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^{-10}$$
$$\left(\frac{1}{3}\right)^{-28}$$

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

$$\left(\frac{1}{3}\right)^{-6} \cdot \left(\frac{1}{3}\right)^{-10}$$
$$\left(\frac{1}{3}\right)^{-16}$$