



Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{11}}{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-6}}$$

$$\frac{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{11}}{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^2}$$

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{-3}$$

$$\frac{\left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^{-3}}{\left(\frac{2}{7}\right)^{-4}}$$

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

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

$$\frac{\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^5}{\left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^{-7}}$$

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

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-1} \cdot \left(\frac{1}{2}\right)^{11}$$

$$\left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^4$$

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

$$\frac{\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-9}}{\left(\frac{1}{2}\right)^5}$$

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

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

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)}{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-6}}$$



Nimi: _____

Päivämäärä: _____ Pisteet: _____

$$\frac{\left(\frac{2}{3}\right)^3 \cdot \left(\frac{2}{3}\right)^{-5} \cdot \left(\frac{2}{3}\right)^{-1} \cdot \left(\frac{2}{3}\right)^{11}}{\left(\frac{2}{3}\right)^9 \cdot \left(\frac{2}{3}\right)^{-6}}$$

$\left(\frac{2}{3}\right)^5$

$$\frac{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^{11}}{\left(\frac{1}{4}\right)^{11} \cdot \left(\frac{1}{4}\right)^2}$$

$\left(\frac{1}{4}\right)^{12}$

$$\left(\frac{1}{9}\right)^{-6} \cdot \left(\frac{1}{9}\right)^{-4} \cdot \left(\frac{1}{9}\right)^{-3}$$

$\left(\frac{1}{9}\right)^{-13}$

$$\frac{\left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^{-3}}{\left(\frac{2}{7}\right)^{-4}}$$

$\left(\frac{2}{7}\right)^{-14}$

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

$\left(\frac{2}{3}\right)^{20}$

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

$\left(\frac{2}{7}\right)^{-11}$

$$\frac{\left(\frac{4}{9}\right)^7 \cdot \left(\frac{4}{9}\right)^{-10} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^5}{\left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^{-7}}$$

$\left(\frac{4}{9}\right)^{12}$

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

$\left(\frac{3}{7}\right)^5$

$$\left(\frac{1}{2}\right)^{-10} \cdot \left(\frac{1}{2}\right)^{-1} \cdot \left(\frac{1}{2}\right)^{11}$$

$\left(\frac{1}{2}\right)^0$

$$\left(\frac{3}{5}\right)^{-8} \cdot \left(\frac{3}{5}\right)^9 \cdot \left(\frac{3}{5}\right)^4$$

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

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

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

$$\frac{\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-9}}{\left(\frac{1}{2}\right)^5}$$

$\left(\frac{1}{2}\right)^5$

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

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

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

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

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-8} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)}{\left(\frac{4}{7}\right)^3 \cdot \left(\frac{4}{7}\right)^{-6}}$$

$\left(\frac{4}{7}\right)^2$