



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

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

$$\frac{\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-4} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)}{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-9}}$$

$$\frac{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^{-6}}{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-9}}$$

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

$$\frac{\left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{10}}{\left(\frac{2}{3}\right)^{11}}$$

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

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{10}}{\left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^9}$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-9}}{\left(\frac{1}{3}\right)^6}$$

$$\left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^8$$

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

$$\frac{\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-2}}$$

$$\frac{\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^{-9}}$$

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

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

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)^9}{\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^9}$$

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



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

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

$$\frac{\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-4} \cdot \left(\frac{3}{8}\right)^{-5} \cdot \left(\frac{3}{8}\right)^3}{\left(\frac{3}{8}\right)^{-3} \cdot \left(\frac{3}{8}\right)^{-9}}$$
$$\left(\frac{3}{8}\right)^{10}$$

$$\frac{\left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^{-6}}{\left(\frac{4}{7}\right)^{-10} \cdot \left(\frac{4}{7}\right)^{-9}}$$
$$\left(\frac{4}{7}\right)^{12}$$

$$\frac{\left(\frac{1}{7}\right)^{-4} \cdot \left(\frac{1}{7}\right)^4 \cdot \left(\frac{1}{7}\right)^2}{\left(\frac{1}{7}\right)^8}$$
$$\left(\frac{1}{7}\right)^{-6}$$

$$\frac{\left(\frac{2}{3}\right)^{-6} \cdot \left(\frac{2}{3}\right)^{-4} \cdot \left(\frac{2}{3}\right)^{10}}{\left(\frac{2}{3}\right)^{11}}$$
$$\left(\frac{2}{3}\right)^{-11}$$

$$\left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^9 \cdot \left(\frac{1}{2}\right)^9$$
$$\left(\frac{1}{2}\right)^{24}$$

$$\frac{\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^{-1} \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{10}}{\left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^9}$$
$$\left(\frac{1}{4}\right)^3$$

$$\frac{\left(\frac{1}{3}\right)^{-7} \cdot \left(\frac{1}{3}\right)^{-5} \cdot \left(\frac{1}{3}\right)^{-9}}{\left(\frac{1}{3}\right)^6}$$
$$\left(\frac{1}{3}\right)^{-27}$$

$$\left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^{-10} \cdot \left(\frac{4}{5}\right)^8$$
$$\left(\frac{4}{5}\right)^7$$

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

$$\frac{\left(\frac{1}{3}\right)^8 \cdot \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^2}{\left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-2}}$$
$$\left(\frac{1}{3}\right)^{20}$$

$$\frac{\left(\frac{2}{5}\right)^{10} \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right)^3 \cdot \left(\frac{2}{5}\right)^{-8}}{\left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^{-9}}$$
$$\left(\frac{2}{5}\right)^{11}$$

$$\left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^{-7}$$
$$\left(\frac{4}{9}\right)^{-13}$$

$$\frac{\left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^{-10}}{\left(\frac{1}{3}\right)}$$
$$\left(\frac{1}{3}\right)^{-15}$$

$$\frac{\left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-8} \cdot \left(\frac{4}{5}\right)^{11} \cdot \left(\frac{4}{5}\right)^9}{\left(\frac{4}{5}\right)^{-6} \cdot \left(\frac{4}{5}\right)^9}$$
$$\left(\frac{4}{5}\right)^7$$

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