



namn: _____

Datum: _____ Poäng: _____

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

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

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

$$\frac{\left(\frac{1}{8}\right)^{-1} \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{-10}}{\left(\frac{1}{8}\right)^9}$$

$$\frac{\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-8}}{\left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^{-7}}$$

$$\frac{\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{10} \cdot \left(\frac{1}{4}\right)^2}{\left(\frac{1}{4}\right)^5}$$

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

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

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

$$\frac{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-9}}{\left(\frac{1}{3}\right)^7}$$

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

$$\frac{\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right) \cdot \left(\frac{4}{7}\right)^7}$$

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

$$\frac{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-2} \cdot \left(\frac{3}{7}\right)^{-8}}{\left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^6}$$

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



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$$\frac{\left(\frac{4}{5}\right)^{-4} \cdot \left(\frac{4}{5}\right)^{-7} \cdot \left(\frac{4}{5}\right)^{-2} \cdot \left(\frac{4}{5}\right)^{-8}}{\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^{-2}}$$
$$\left(\frac{4}{5}\right)^{-23}$$

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

$$\frac{\left(\frac{1}{6}\right)^{-2} \cdot \left(\frac{1}{6}\right)^{11} \cdot \left(\frac{1}{6}\right)^{11}}{\left(\frac{1}{6}\right)^{-4}}$$
$$\left(\frac{1}{6}\right)^{24}$$

$$\frac{\left(\frac{1}{8}\right)^{-1} \cdot \left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{-10}}{\left(\frac{1}{8}\right)^9}$$
$$\left(\frac{1}{8}\right)^{-27}$$

$$\frac{\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^{11} \cdot \left(\frac{2}{9}\right)^{-10} \cdot \left(\frac{2}{9}\right)^{-8}}{\left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^{-7}}$$
$$\left(\frac{2}{9}\right)^{-15}$$

$$\frac{\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{10} \cdot \left(\frac{1}{4}\right)^2}{\left(\frac{1}{4}\right)^5}$$
$$\left(\frac{1}{4}\right)^{12}$$

$$\frac{\left(\frac{1}{7}\right) \cdot \left(\frac{1}{7}\right)^{-8} \cdot \left(\frac{1}{7}\right)^{-6}}{\left(\frac{1}{7}\right)^2}$$
$$\left(\frac{1}{7}\right)^{-15}$$

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

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

$$\frac{\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^{-9} \cdot \left(\frac{1}{3}\right)^{-9}}{\left(\frac{1}{3}\right)^7}$$
$$\left(\frac{1}{3}\right)^{-29}$$

$$\frac{\left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^5 \cdot \left(\frac{1}{8}\right)^5}{\left(\frac{1}{8}\right)^{15}}$$
$$\left(\frac{1}{8}\right)^{15}$$

$$\frac{\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^{11} \cdot \left(\frac{4}{7}\right)^{-9} \cdot \left(\frac{4}{7}\right)^{10}}{\left(\frac{4}{7}\right) \cdot \left(\frac{4}{7}\right)^7}$$
$$\left(\frac{4}{7}\right)^{11}$$

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

$$\frac{\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^{11} \cdot \left(\frac{3}{7}\right)^{-2} \cdot \left(\frac{3}{7}\right)^{-8}}{\left(\frac{3}{7}\right)^{-3} \cdot \left(\frac{3}{7}\right)^6}$$
$$\left(\frac{3}{7}\right)^7$$

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