



StudentName: _____

ExamDate: _____ ExamScore: _____

$$\frac{\left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^{11}}{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-9}}$$

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

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

$$\frac{\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^4 \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^4}$$

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

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

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

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

$$\frac{\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^6}{\left(\frac{1}{2}\right)^{-3}}$$

$$\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^{11}$$

$$\frac{\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{-9}}{\left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^5}$$

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

$$\frac{\left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-10}}{\left(\frac{1}{4}\right)^6}$$

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

$$\frac{\left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^4}{\left(\frac{1}{8}\right)^{-4}}$$



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$$\frac{\left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-9} \cdot \left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^{11}}{\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-9}}$$
$$\left(\frac{1}{8}\right)^{21}$$

$$\frac{\left(\frac{4}{7}\right)^{-2} \cdot \left(\frac{4}{7}\right)^{-4} \cdot \left(\frac{4}{7}\right)^{-10}}{\left(\frac{4}{7}\right)^{-16}}$$

$$\frac{\left(\frac{4}{5}\right)^7 \cdot \left(\frac{4}{5}\right)^9 \cdot \left(\frac{4}{5}\right)^{-7}}{\left(\frac{4}{5}\right)^{-5}}$$
$$\left(\frac{4}{5}\right)^{14}$$

$$\frac{\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^4 \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^3}{\left(\frac{4}{7}\right)^{-1} \cdot \left(\frac{4}{7}\right)^4}$$
$$\left(\frac{4}{7}\right)^{21}$$

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

$$\frac{\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-2} \cdot \left(\frac{2}{9}\right)^{10} \cdot \left(\frac{2}{9}\right)^9}{\left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)^{-6}}$$
$$\left(\frac{2}{9}\right)^{16}$$

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

$$\frac{\left(\frac{3}{8}\right)^2 \cdot \left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-8}}{\left(\frac{3}{8}\right)^{-9}}$$
$$\left(\frac{3}{8}\right)^{-7}$$

$$\frac{\left(\frac{1}{2}\right)^2 \cdot \left(\frac{1}{2}\right)^7 \cdot \left(\frac{1}{2}\right)^6}{\left(\frac{1}{2}\right)^{-3}}$$
$$\left(\frac{1}{2}\right)^{18}$$

$$\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^{-3} \cdot \left(\frac{3}{5}\right)^{11}$$
$$\left(\frac{3}{5}\right)$$

$$\frac{\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^4 \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{-9}}{\left(\frac{3}{5}\right)^{-10} \cdot \left(\frac{3}{5}\right)^5}$$
$$\left(\frac{3}{5}\right)^{-4}$$

$$\frac{\left(\frac{3}{8}\right)^2 \cdot \left(\frac{3}{8}\right)^{-4} \cdot \left(\frac{3}{8}\right) \cdot \left(\frac{3}{8}\right)^9}{\left(\frac{3}{8}\right)^{-10} \cdot \left(\frac{3}{8}\right)^{-4}}$$
$$\left(\frac{3}{8}\right)^{22}$$

$$\frac{\left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^{-10}}{\left(\frac{1}{4}\right)^6}$$
$$\left(\frac{1}{4}\right)^{-5}$$

$$\frac{\left(\frac{3}{7}\right)^{-2} \cdot \left(\frac{3}{7}\right)^{-7} \cdot \left(\frac{3}{7}\right)^{11}}{\left(\frac{3}{7}\right)^6}$$
$$\left(\frac{3}{7}\right)^{-4}$$

$$\frac{\left(\frac{1}{8}\right)^{-3} \cdot \left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^4}{\left(\frac{1}{8}\right)^{-4}}$$
$$\left(\frac{1}{8}\right)^{-1}$$