Exponent Laws + Order of Operations
$$\begin{pmatrix} 2 \\ 5 \end{pmatrix}^{3} \begin{vmatrix} -3 \\ 5 \end{vmatrix}^{-3} \cdot \begin{pmatrix} 2 \\ 5 \end{pmatrix}^{9} = \begin{pmatrix} 2 \\ 5 \end{pmatrix}^{3} = \frac{3}{125}$$

$$\begin{pmatrix} 0.8 \end{pmatrix}^{-5} \cdot \begin{pmatrix} 0.8 \end{pmatrix}^{3} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}^{-5} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}^{3} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}^{-2} \\ = \begin{pmatrix} 4 \\ 5 \end{pmatrix}^{-2} = 25 \\ 4 \begin{pmatrix} 3 \\ 3 \end{pmatrix}^{-3} = 14 \begin{pmatrix} 3 \\ 2 \end{pmatrix}^{2} = 4 + \frac{27}{452} = 27 \\ 4 \begin{pmatrix} 3 \\ 3 \end{pmatrix}^{-3} = 14 \begin{pmatrix} 3 \\ 2 \end{pmatrix}^{2} = 4 + \frac{27}{452} = 27 \\ 4 \begin{pmatrix} 3 \\ 3 \end{pmatrix}^{-3} = 4 + \begin{pmatrix} 3 \\ 2 \end{pmatrix}^{-3} = 4 + \begin{pmatrix} 3 \\ 2 \end{pmatrix}^{-7} = \begin{pmatrix} 4 \\ 3 \end{pmatrix}^{-7} = \begin{pmatrix} 4 \\ 3 \end{pmatrix}^{-3} = 4 + \begin{pmatrix} 3 \\ 3 \end{pmatrix}^{-3} = 4 + \begin{pmatrix} 3 \\ 2 \end{pmatrix}^{-7} = \begin{pmatrix} 4 \\ 3 \end{pmatrix}^{-7} = \begin{pmatrix} 4 \\$$

$$\left(\frac{1}{8^{\frac{2}{3}}} + 3\sqrt{6}\right)^{-2} = \left(\frac{1}{3\sqrt{8}}\right)^{-2} + 2$$

$$= \left(\frac{1}{4} + 2\right)^{-2} = \left(\frac{1}{24}\right)^{-2} = \left(\frac{1}{4}\right)^{-2} = \left(\frac{1}{4}\right)^{$$

$$\frac{1}{36^{\frac{7}{3}}} = \frac{36^{\frac{1}{24}}}{36^{\frac{1}{24}}} = \frac{36^{\frac{1}{24}}}}{36^{\frac{1}{24}}} = \frac{36^{\frac{1}{24}}}{36^{\frac{1}{24}}} = \frac{36^{\frac{1}{24}}}$$

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

(395)

 $= 64b^2$   $9 a^{\frac{1}{2}}$ 

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