Let's write

$$\frac{NO_x}{NO_2} = m_1 \exp\left(-\frac{s}{\tau_1}\right) + m_0$$

and

$$\frac{NO_x}{CO_2} = \exp\left(-\frac{s}{\tau_2}\right).$$

Now,

$$\frac{NO_x}{NO_2} \cdot \frac{CO_2}{NO_x} = \left[m_1 \exp\left(-\frac{s}{\tau_1}\right) + m_0\right] \cdot \exp\left(\frac{s}{\tau_2}\right)$$

$$\Rightarrow \frac{CO_2}{NO_2} = m_1 \exp\left(-\frac{s}{\tau_3}\right) + m_0 \cdot \exp\left(\frac{s}{\tau_2}\right),$$

where $\tau_3 = \dfrac{-1}{\frac{1}{\tau_2} - \frac{1}{\tau_1}}$.