-Aler Masleins

Determine an expression for Vout/Is. Your final answer should not have any "Req" term. (Note; there are no numerical values in this problem; thus - your final answer should be in terms of the resistors and the parameter "a"). (25 points)

$$i_{in} = \frac{R_i}{R_i + R_z} I_s$$

$$I_s = \frac{in}{\binom{R_1}{R_1 + R_2}}$$

$$f_{S} = \frac{\ln \left(R_{1} + R_{2}\right)}{R_{1}}$$

$$R_{eq} = \frac{R_4 R_5}{R_4 + R_5}$$

$$V_{out} = \frac{R_{eq} \quad Q_{lin}}{R_3 + R_{eq}} \quad Q_{lin}$$

$$R_3 + R_{eq} \quad R_3 + \left(\frac{R_4 R_5}{R_4 + R_5}\right)$$

$$\frac{V_{out}}{I_{s}} = \frac{\left(\frac{R_{s}R_{s}}{R_{s}*R_{s}}\right) ON_{i}}{\left(\frac{R_{s}R_{s}}{R_{s}*R_{s}}\right)} ON_{i}$$

$$\frac{V_{out}}{I_{s}} = \frac{\left(\frac{R_{s}R_{s}}{R_{s}*R_{s}}\right) ON_{i}}{\left(\frac{R_{s}R_{s}}{R_{s}}\right)} ON_{i}$$

$$\left(\begin{array}{c} R_1 \\ \vdots \\ R_1 + i \\ n \\ R_2 \end{array}\right)$$