$$\begin{array}{ccc}
R_{2} \\
V_{out} & = \left(1 + \frac{R_{2}}{R_{1}}\right) v_{in} \\
V_{out} & = 0
\end{array}$$

$$\begin{array}{ccc}
Z_{in} & = \infty \\
Z_{out} & = 0
\end{array}$$