

$$\begin{aligned}
I_i &= I_s - I_f \\
I_f &= \frac{V_{be} - V_o}{R_f} \approx -\frac{V_o}{R_f} \\
&= W V_o \\
W &= \frac{1}{R_f} \\
A_{rf} &= \frac{1}{W} = -R_f \quad (\text{ب})
\end{aligned}$$

