

Concept Question 4-6: How large is the circuit gain G in the absence of feedback? How large is it with 100 percent feedback (equivalent to setting $R_1 = 0$ in the circuit of Fig. 4-8(a))?

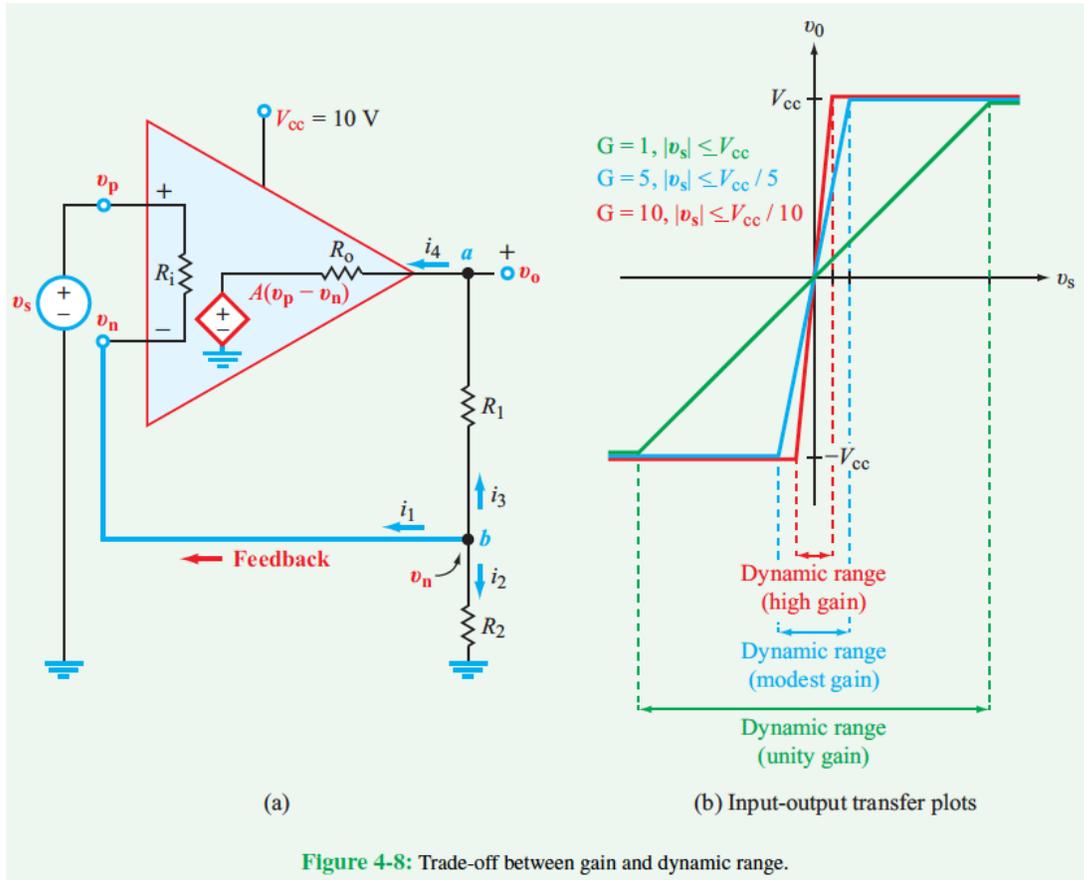


Figure 4-8: Trade-off between gain and dynamic range.

In the absence of feedback, $G = A$.
 With 100% feedback, $G = 1$.