2006/5/30

1/1/1/3

- 1. Figure 1 shows an op amp connected in the noninverting configuration.
  - (a) Find the expressions for A &  $\beta$ .

(30%)

(b) Find the expressions for V<sub>o</sub>/V<sub>s</sub>, R<sub>in</sub>, R<sub>out</sub>

(30%)

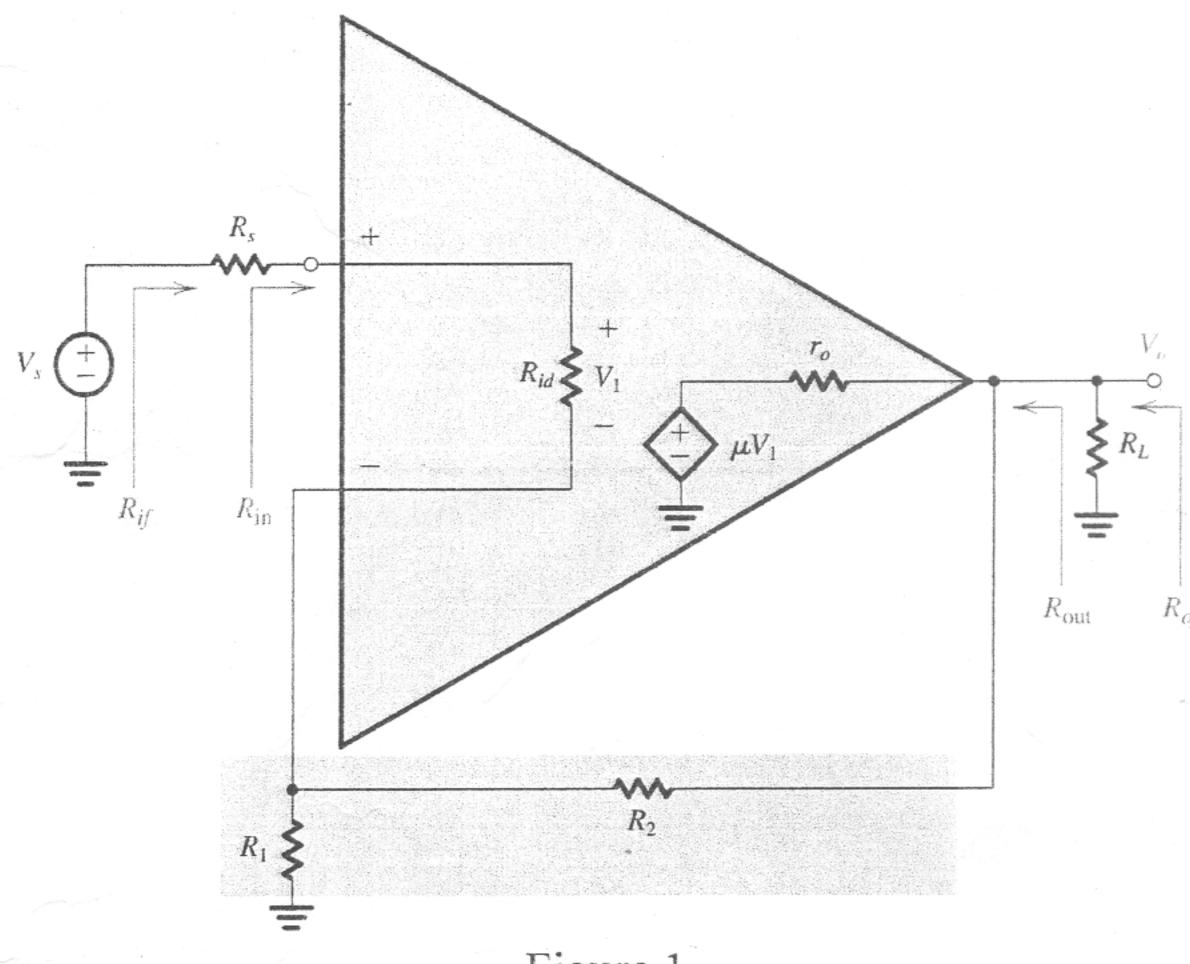
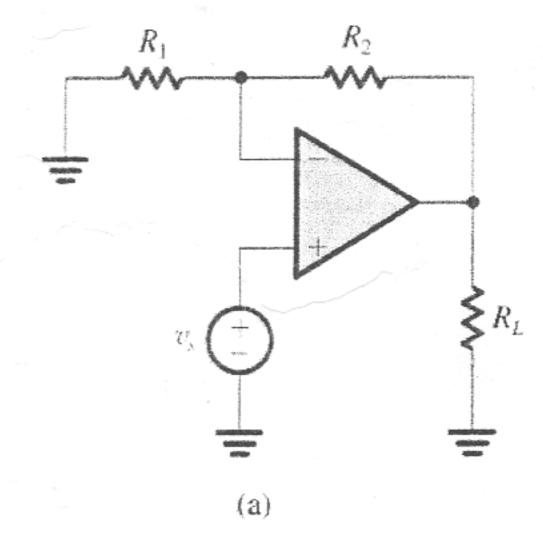


Figure 1

- 2. For each of the op-amp circuits shown in Figure 2,
  - (a) Identify the feedback topology and indicate the output variable being sampled and the feedback signal. (20%)
  - (b) Find an expression for  $\beta$ . Assume the op amp to be ideal. (20%)



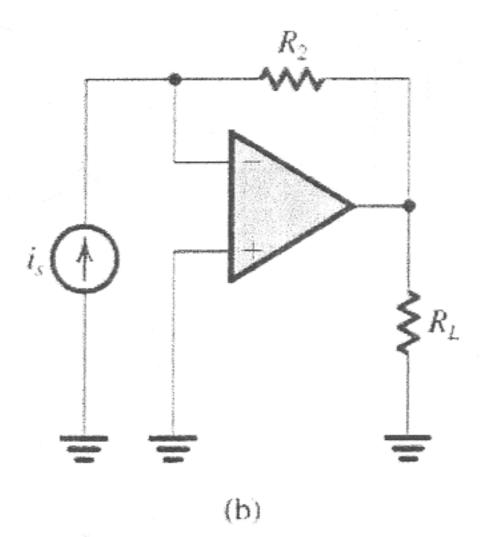


Figure 2