## Chapter 5, Solution 2.

The open-loop gain of an op amp is 100,000. Calculate the output voltage when there are inputs of +10  $\mu$ V on the inverting terminal and + 20  $\mu$ V on the noninverting terminal.

## **Solution**

$$v_0 = Av_d = A(v_2 - v_1)$$
  
= 10<sup>5</sup> (20-10) x 10<sup>-6</sup> = **1V**