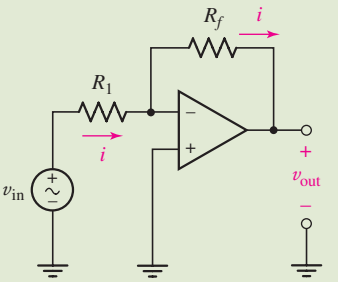
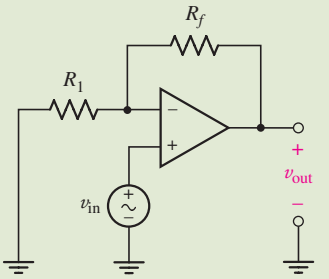
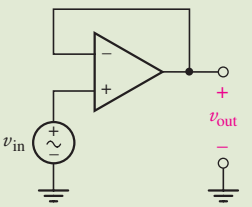
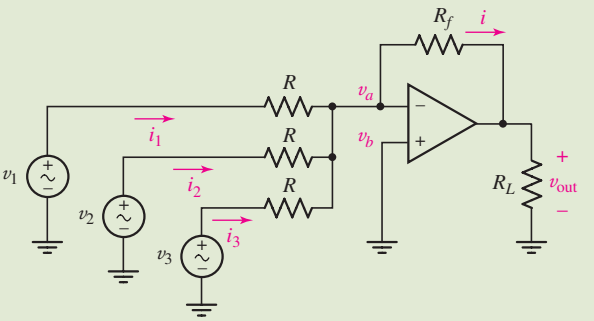
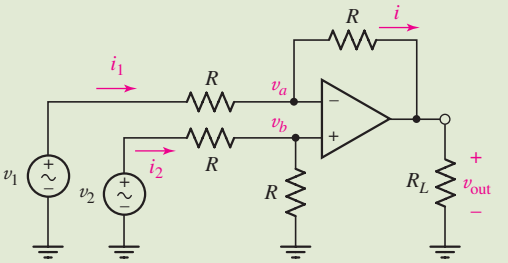
TABLE 6.1 Summary of Basic Op Amp Circuits

Name	Circuit Schematic	Input-Output Relation
Inverting Amplifier		$v_{\text{out}} = -\frac{R_f}{R_1} v_{\text{in}}$
Noninverting Amplifier		$v_{\text{out}} = \left(1 + \frac{R_f}{R_1}\right) v_{\text{in}}$
Voltage Follower (also known as a Unity Gain Amplifier)		$v_{\text{out}} = v_{\text{in}}$
Summing Amplifier		$v_{\text{out}} = -\frac{R_f}{R}(v_1 + v_2 + v_3)$
Difference Amplifier		$v_{\text{out}} = v_2 - v_1$