

### Chapter 6, Solution 79.

Design an analog computer circuit to solve the following ordinary differential equation.

$$(dy(t)/dt) + 4y(t) = f(t)$$

where  $y(0) = 1 \text{ V}$ .

### Solution

We can write the equation as

$$\frac{dy}{dt} = f(t) - 4y(t)$$

which is implemented by the circuit below.

