## Chapter 6, Problem 78.

Design an analog computer to simulate

$$\frac{d^2 v_0}{dt^2} + 2\frac{dv_0}{dt} + v_0 = 10\sin 2t$$

where 
$$v_{\theta}(0) = 2 \text{ V}$$
 and  $v'_{\theta}(0) = 0$ .