Special Problem 2.4-2

Using **two** ideal op-amps, design a circuit which takes two inputs ($V_A(t)$ and $V_B(t)$) and produces at an open–circuit output the signal:

$$V_O(t) = \frac{d V_A(t)}{dt} - 2V_B(t)$$

The **only** capacitor that you have available for this design has the value of **10 microfarads.**

Hint: The above equation has **two** mathematical operations, **differentiation** and **summation** (Two op-amps and two operations - what a coincidence!).