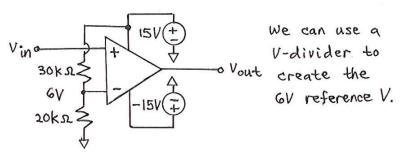
-14 V



V_{in} $12 V_{in}$ $-12 V_{in}$ $-12 V_{in}$ $-12 V_{in}$ V_{out} $14 V_{in}$ $14 V_$

Using op-amps, power supplies, and resistors, draw a circuit to produce V_{out} from V_{in} . (Assume you have a function generator that produces V_{in} for you to use.) Show all relevant information in your circuit, including power supply voltages for op-amps.

sol'n: We use a comparator circuit. The comparator should trip when Vin = GV. The comparator power supply voltages should be (about) IV higher than the desired 14V output voltage.



Ex: