

# Practice Sheet-4

## Winter\_2025

### Basic Electronics (ECE113)

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**Q1:** In Figure-1, find the output voltage ( $V_o$ ).

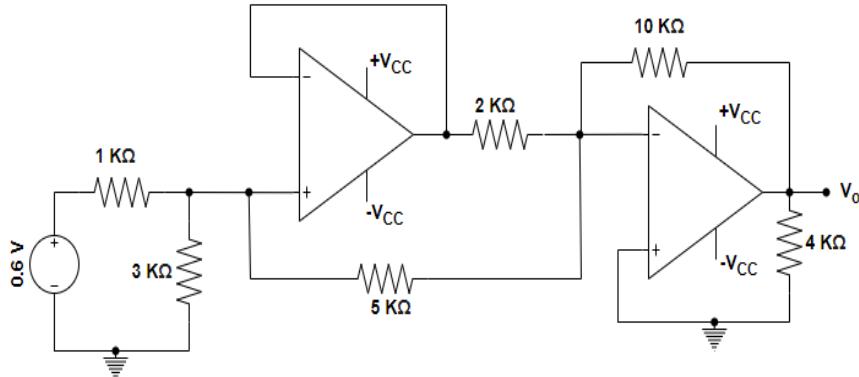


Figure 1

**Q2:** Find output voltage  $v_o$  in the given following circuit (Figure-2).

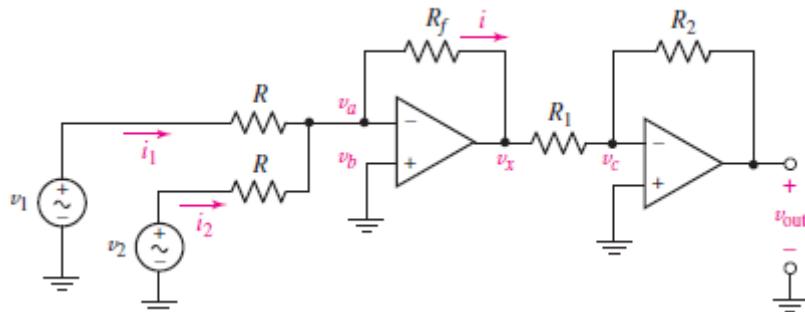


Figure 2

**Q3:** Find output voltage  $V_1$  in the given following circuit (Figure-3).

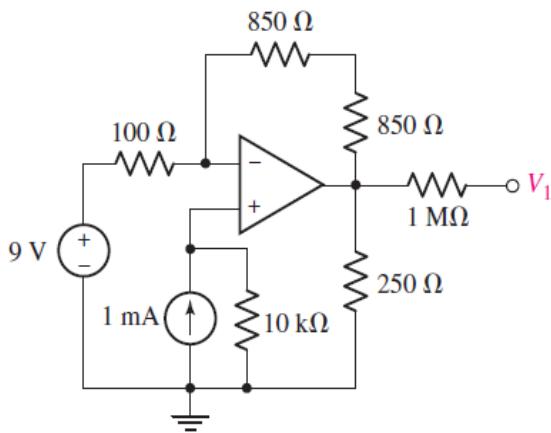


Figure 3

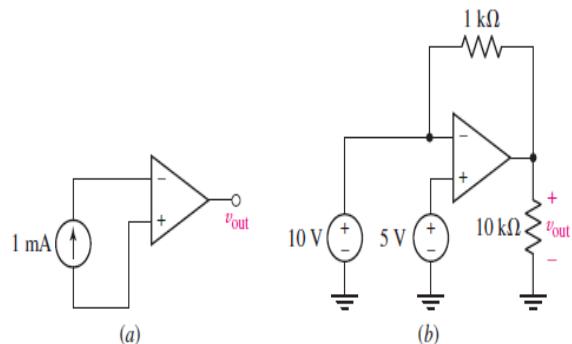


Figure 4

**Q4:** Explain what is wrong with each diagram in Figure-4 if the two op amps are known to be perfectly ideal.