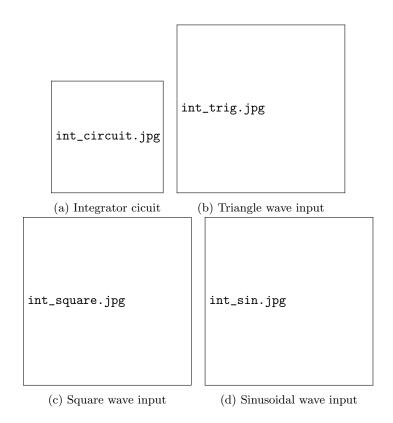
MOS-Based Differential Circuits Report

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1 DC Analysis

 $I_1 = 0.129~{\rm mA},\, I_2 = 0.156~{\rm mA},\, I = 0.280~{\rm mA}$

 $I_1 \neq I_2$ due to mismatch in circuit components and transistor parameters. $I_1 + I_2 = I$ because of *Kirchhoff's Current Law*.



2 Differentiator

