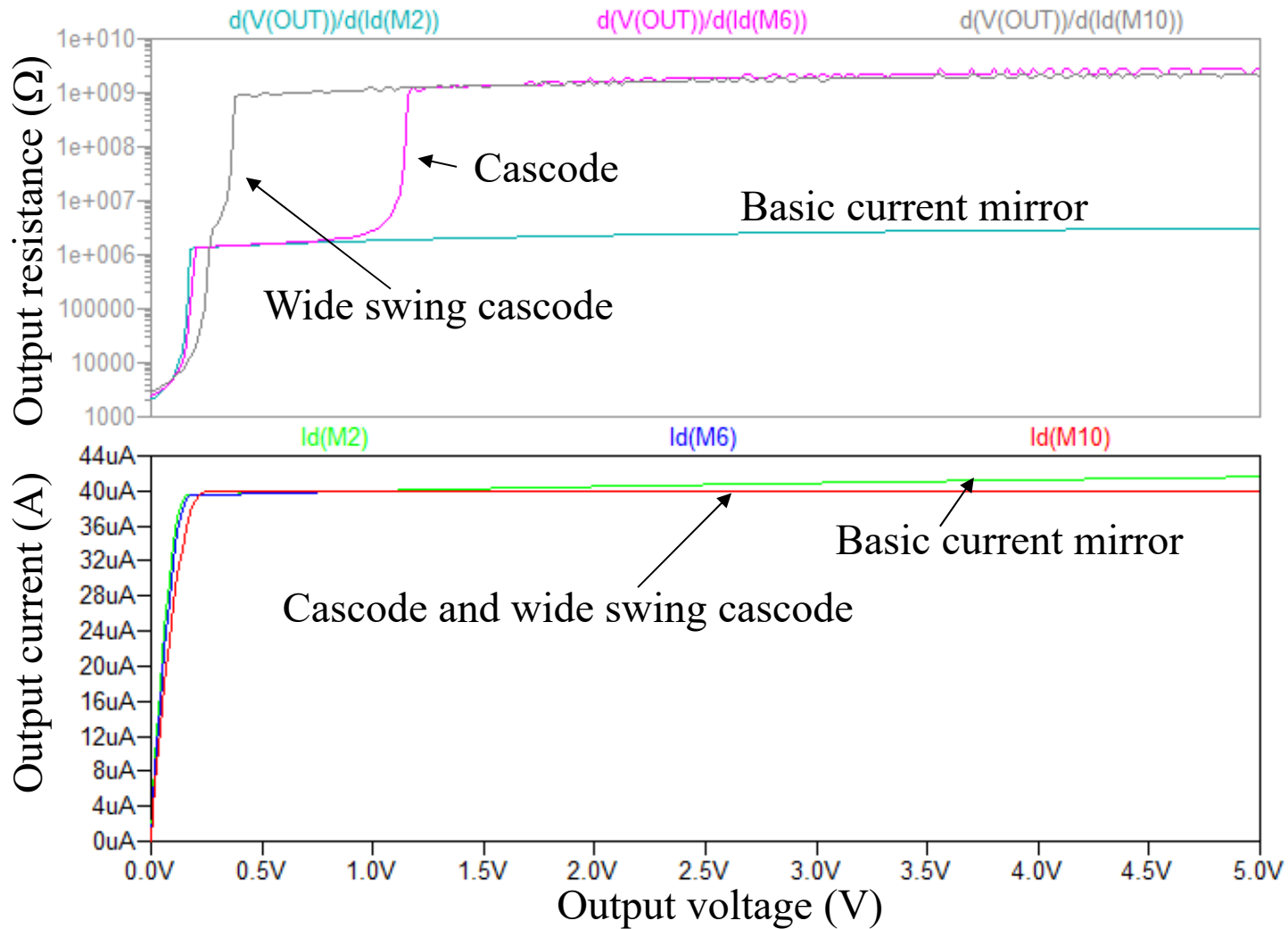


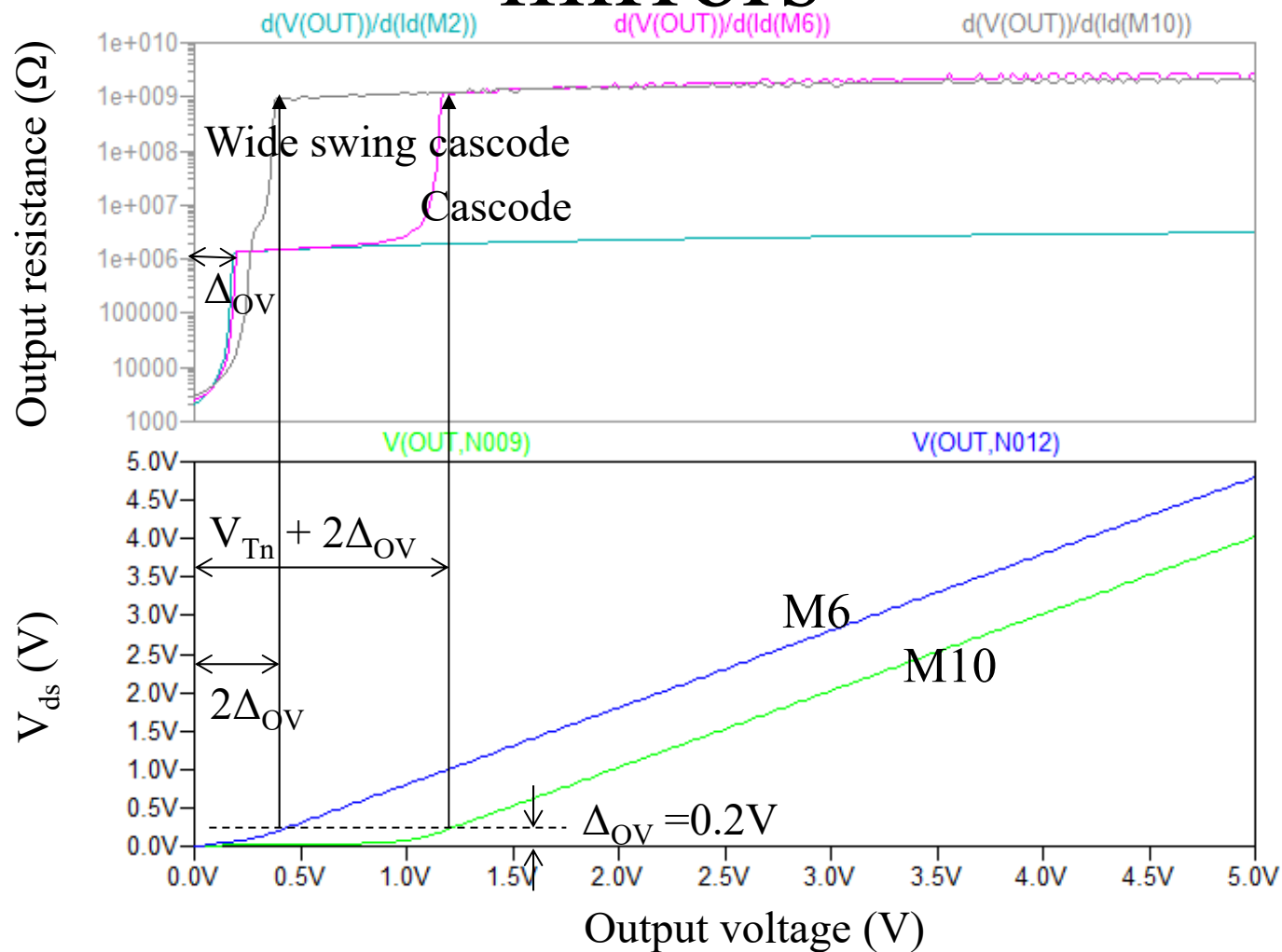
Lab. 08 Example solution

CHARACTERIZATION OF CURRENT MIRRORS

Simulation results



Output swing of cascade current mirrors



1. Evaluation results

Circuit	Output range (V)	Output resistance (Ω) @2.5V
Basic current mirror	0.183V ~ 5.0V	2.44M Ω
Cascode current mirror	1.164V ~ 5.0V	1.83G Ω
Wide swing cascode current mirror	0.388V ~ 5.0V	1.57G Ω

2. Output swing of the regulated drain current mirror

