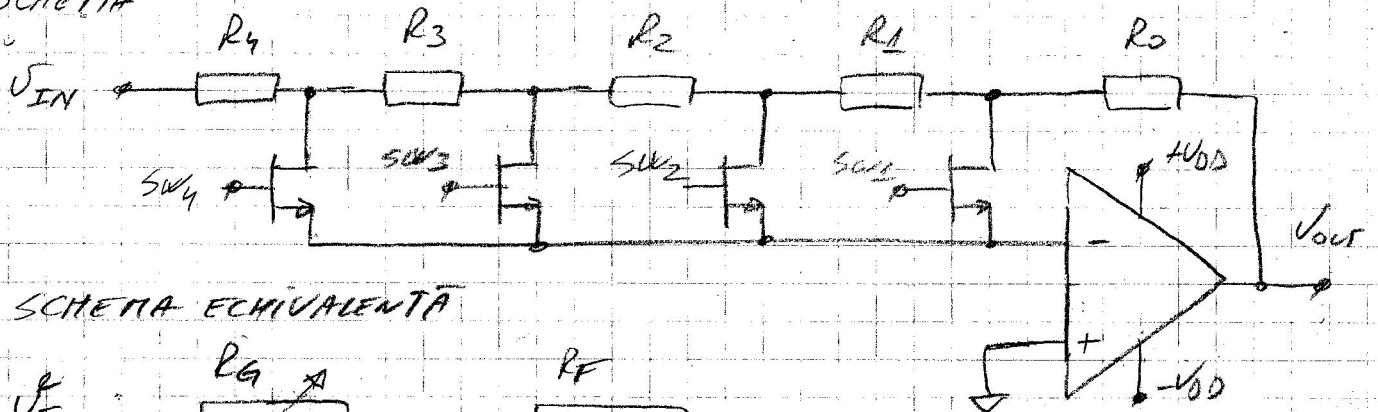


# PGA cu AD: EXEMPLU DE PROIECTARE

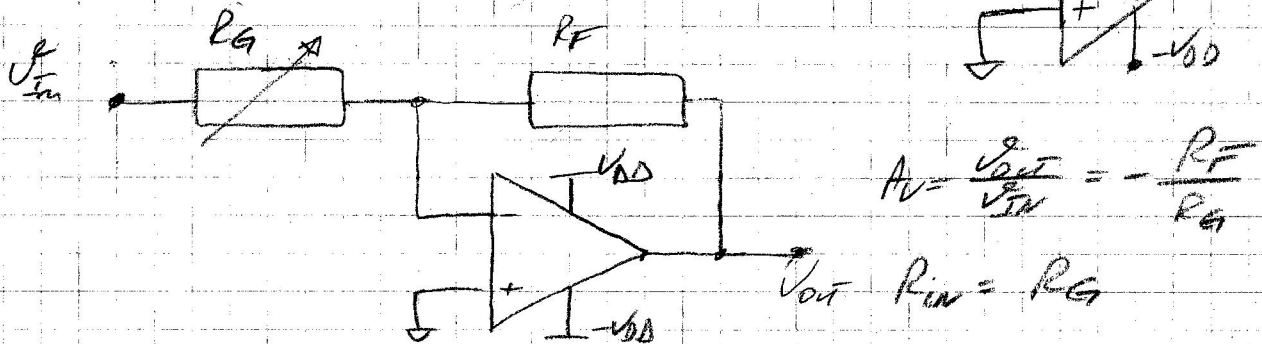
TEMA: PROIECTATI UN PGA CU AD SI SWITCH-URI MOS PLASATE IN AFARA CAN DE SEMNAL, CARE SA REALIZEZE URMATOARELE

- VALORI ALE AMPLIFICĂRII:  $-6\text{ dB}$ ;  $0\text{ dB}$ ;  $6\text{ dB}$ ;  $12\text{ dB}$
- $R_{in} \geq 6\text{ k}\Omega$

SCHEMA



SCHEMA ECHIVALENTĂ



TABEL DE COMANDĂ

SW <sub>4</sub>	SW <sub>3</sub>	SW <sub>2</sub>	SW <sub>1</sub>	R <sub>G</sub>	R <sub>F</sub>	A <sub>v</sub> [dB]	A <sub>v</sub> [V/V]
V <sub>DD</sub>	0	0	0	R <sub>4</sub>	R <sub>0</sub> + R <sub>1</sub> + R <sub>2</sub> + R <sub>3</sub>	12	4
0	V <sub>DD</sub>	0	0	R <sub>4</sub> + R <sub>3</sub>	R <sub>0</sub> + R <sub>1</sub> + R <sub>2</sub>	6	2
0	0	V <sub>DD</sub>	0	R <sub>4</sub> + R <sub>3</sub> + R <sub>2</sub>	R <sub>0</sub> + R <sub>1</sub>	0	1
0	0	0	V <sub>DD</sub>	R <sub>4</sub> + R <sub>3</sub> + R <sub>2</sub> + R <sub>1</sub>	R <sub>0</sub>	-6	0.5