

1) List typical requirements/guidelines for signal wiring to minimize the signal transmission pickup noise:

1.1)

1.2)

1.3)

1.4)

1.5)

2) Derive formula for gain (step-by-step) of the depicted amplifier if Op-amp gain is very large, and calculate the gain if  $R_1=10\text{ k}\Omega$  and  $R_2=100\text{ k}\Omega$ .

