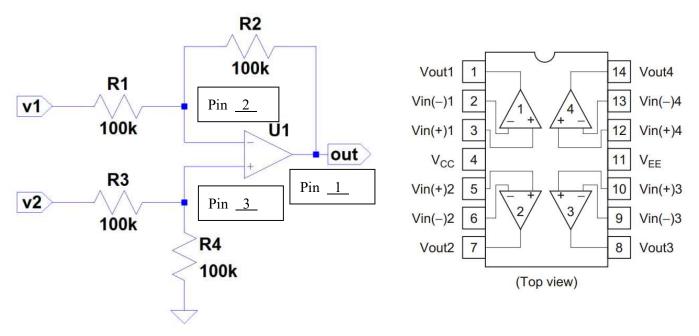
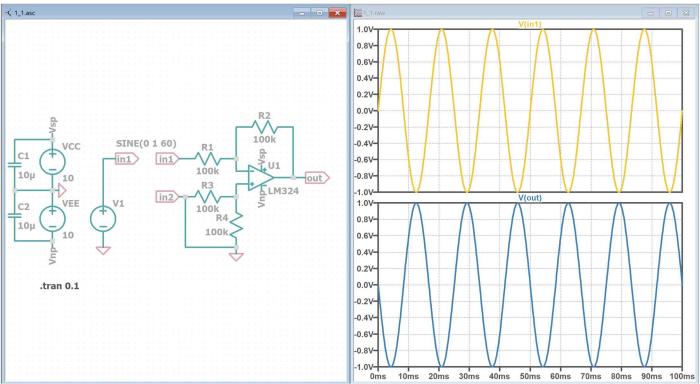
Instrumentation Amplifier Lab9

REPORT

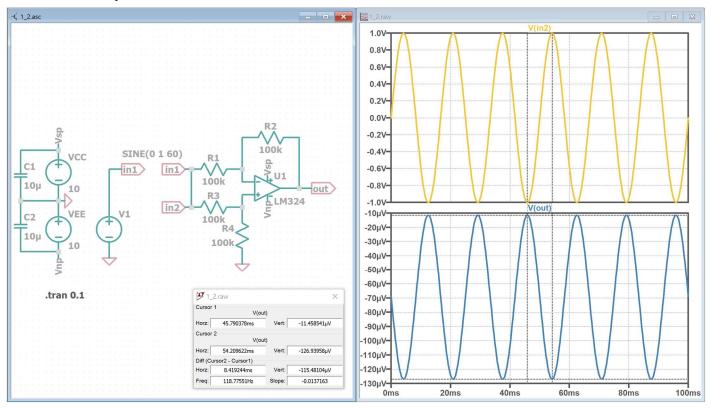
Experiment 1: Difference Amplifier

Write down your pinout.





Instrumentation Amplifier Lab9

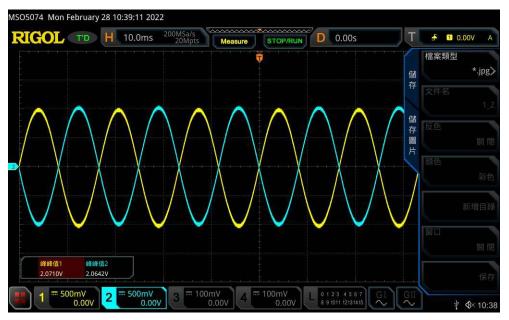


CMRR=78.786 dB

Q: power 電容並聯一大一小穩壓。

2.

V _{1,pp} (V)	v _{2,pp} (V)	v _{d,pp} =v2-v1 (V)	V _{out,pp} (V)	A _{DM} (V/V)	Phase (vout->v1) (degree)
2.071	0	2.071	2.064	0.997	180



3.

v _{1,pp} (V)	V _{out,pp} (V)	A _{CM} (V/V)	Phase (v _{out} ->v ₁) (degree)
2.049	4.133m	2.017m	180

Lab9

Q:頻寬限制

vout and v1 waveform:

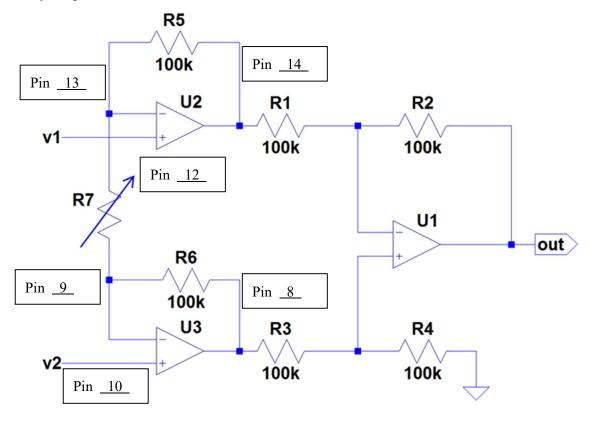


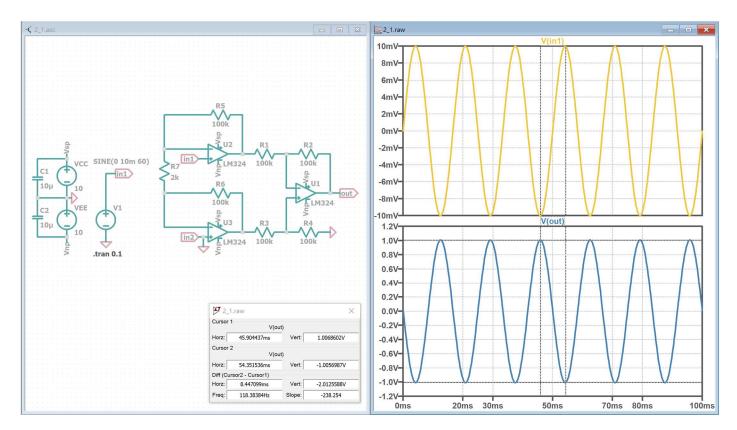
4.

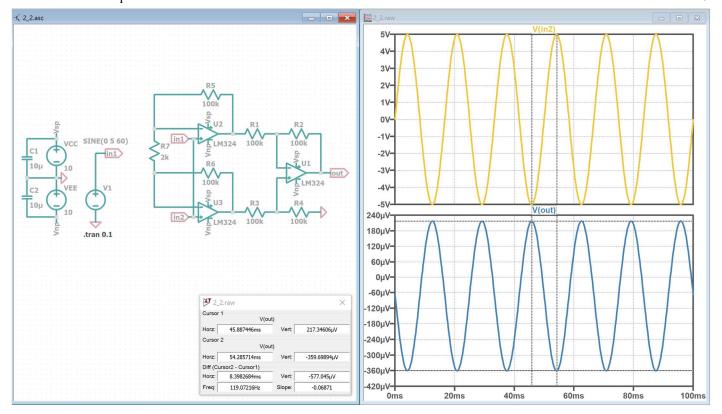
$$CMRR = \left| \frac{A_{DM}}{A_{CM}} \right| = \underline{\mathbf{53.88 dB}}$$

Experiment 2: Instrumentation Amplifier

Write down your pinout.







2.

(V) 19.58m	(V)	(V) 19.58m	(V) 2.075	(V/V) 106	(vout->v1) (degree) 180
$v1_{,pp}$	v2 _{,pp}	vd,pp=v2-v1	V _{out,pp}	A_{DM}	Phase



Instrumentation Amplifier Lab9

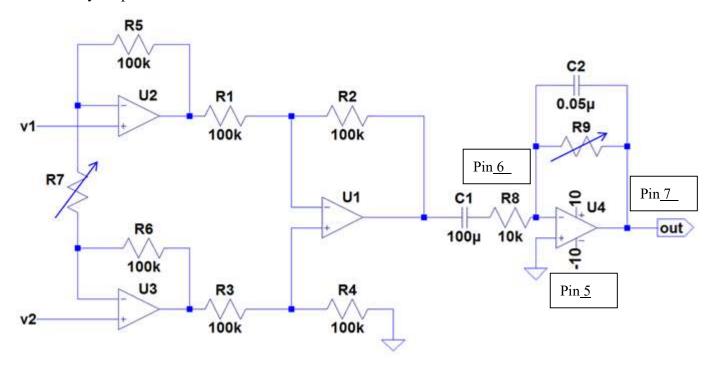
v1,pp (V)	vout,pp (V)	A _{CM} (V/V)	Phase (vout->v1) (degree)	
10.313	33.66m	3.264m	180	

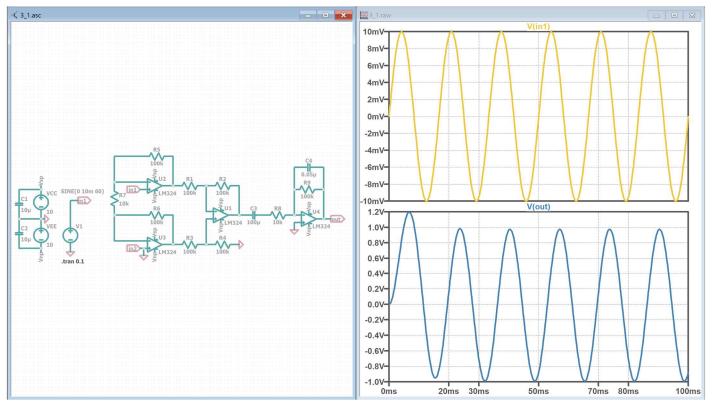


$$CMRR = \left| \frac{A_{DM}}{A_{CM}} \right| = \underline{90.231 \text{ dB}}$$

Experiment 3: Instrumentation Amplifier with band-pass filter

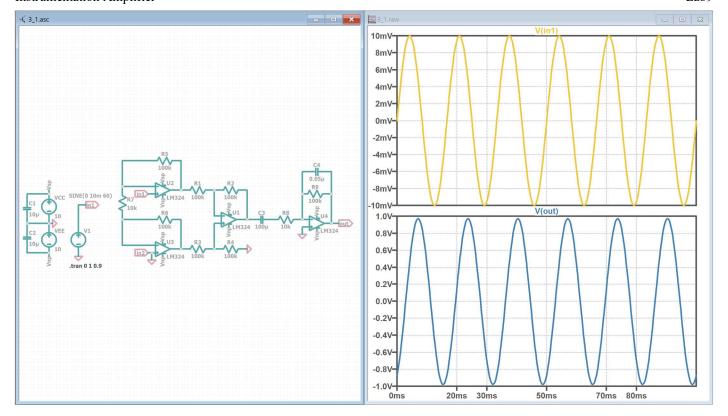
Write down your pinout.





Instrumentation Amplifier

Lab9



2.

19.75m	0	19.75m	2.035	103	(degree) 58.32
v1,pp (V)	v2, _{pp} (V)	vd,pp=v2-v1 (V)	V _{out,pp} (V)	A _{DM} (V/V)	Phase (vout->v1)

