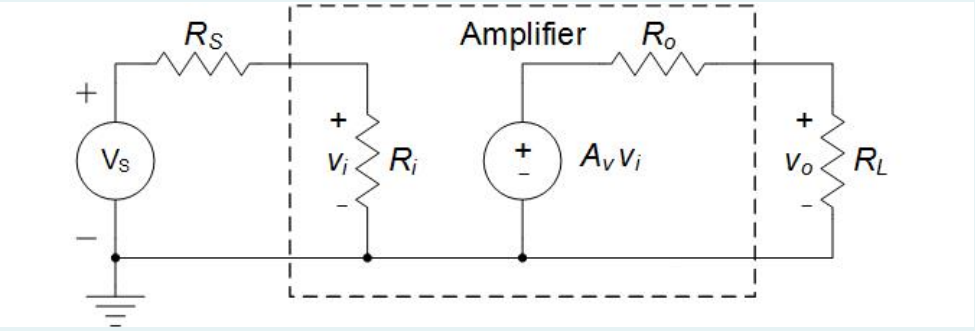
Started on	Monday, 18 July 2022, 10:59 PM
State	Finished
Completed on	Monday, 18 July 2022, 11:40 PM
Time taken	41 mins 8 secs
Grade	**8.0** out of 10.0 (**80**%)

Question **1**

Correct

Mark 2.0 out of 2.0



For the amplifier shown, what is the largest output resistance in kΩ that can be used without losing more than 32.7 percent of the amplifier's open circuit output voltage = AvVi across Ro? Use RL = 31.3kΩ.

Answer: 15.21 ✔

The correct answer is: 15.21

Correct

Marks for this submission: 2.0/2.0.

Question **2**

Correct

Mark 2.0 out of 2.0

An amplifier which needs a low input resistance and a low output resistance is :

Select one:

- a. A current amplifier
- b. None of these
- c. A transconductance amplifier
- d. A transresistance amplifier ✔
- e. A voltage amplifier

The correct answer is: A transresistance amplifier

Correct

Marks for this submission: 2.0/2.0.

Question **3**

Correct

Mark 0.0 out of 2.0

For a DC coupled amplifier with a single high frequency pole, the magnitude of the gain decreases at -20dB/decade as the frequency is increased above the corner frequency.

Select one:

- True ✔
- False

The correct answer is 'True'.

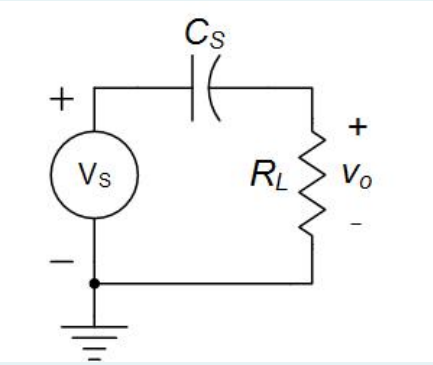
Correct

Marks for this submission: 2.0/2.0. Accounting for previous tries, this gives **0.0/2.0**.

Question **4**

Correct

Mark 2.0 out of 2.0



The circuit shown has a :

Select one:

- a. Bandpass response
- b. High pass response ✔
- c. Low pass response
- d. Impossible to determine
- e. None of these

The correct answer is: High pass response

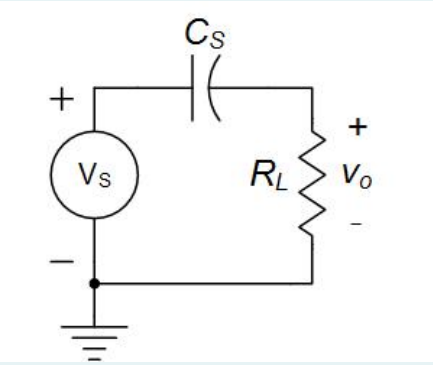
Correct

Marks for this submission: 2.0/2.0.

Question **5**

Correct

Mark 2.0 out of 2.0



For the filter circuit shown, what is the magnitude of the transfer function Vo/Vs at a frequency of 15.9MHz? Use RL = 6.3kΩ and Cs = 7.4pF.

Answer: 1 ✔

The correct answer is: 0.978

Correct

Marks for this submission: 2.0/2.0.

◄ Practice Quiz 1a - Circuit Basics

Jump to...

Practice Quiz 2 - Opamps ►