Class Assessment (Week 7)

Started: Oct 13 at 11:11am

Quiz Instructions

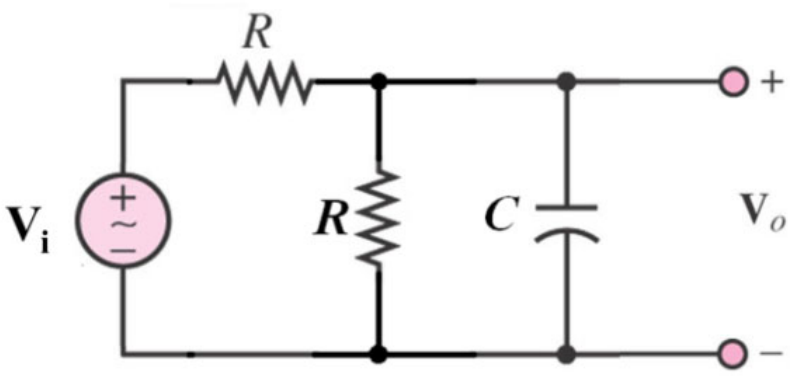
Question 1

1 pts

With reference to Fig 1, the circuit's frequency response can be expressed in the form:

$$\frac{V_o}{V_i} = \frac{A}{1+\frac{j\omega}{\omega_c}}$$

Determine the value of A.



Question 2

1 pts

Choose the correct expression for the cut off radian frequency.

- ○ 2/(RC)
- ○ 1/(RC)
- ○ 1/(2RC)
- ○ RC

Question 3 1 pts

Determine $|V_o/V_i|$ at 0 rad/s.

Question 4 1 pts

Determine $|V_o/V_i|$ at the cut off radian frequency.

Question 5 1 pts

Determine $|V_o/V_i|$ in the limit where the frequency is infinitely high.

Question 6 1 pts

Determine $\angle\left(\frac{V_o}{V_i}\right)$ at 0 rad/s in degrees.

Question 7 1 pts

Determine $\angle\left(\frac{V_o}{V_i}\right)$ at the cut off radian frequency (in degrees).

Question 8

1 pts

Determine $\angle\left(\frac{V_o}{V_i}\right)$ in the limit where the frequency is infinitely high (in degrees).

Quiz saved at 6:09pm

Submit Quiz