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Quiz 2 - Chapter 9

Started on	Wednesday, 6 February 2019, 9:18 AM
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State	Finished
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Completed on	Wednesday, 6 February 2019, 9:55 AM
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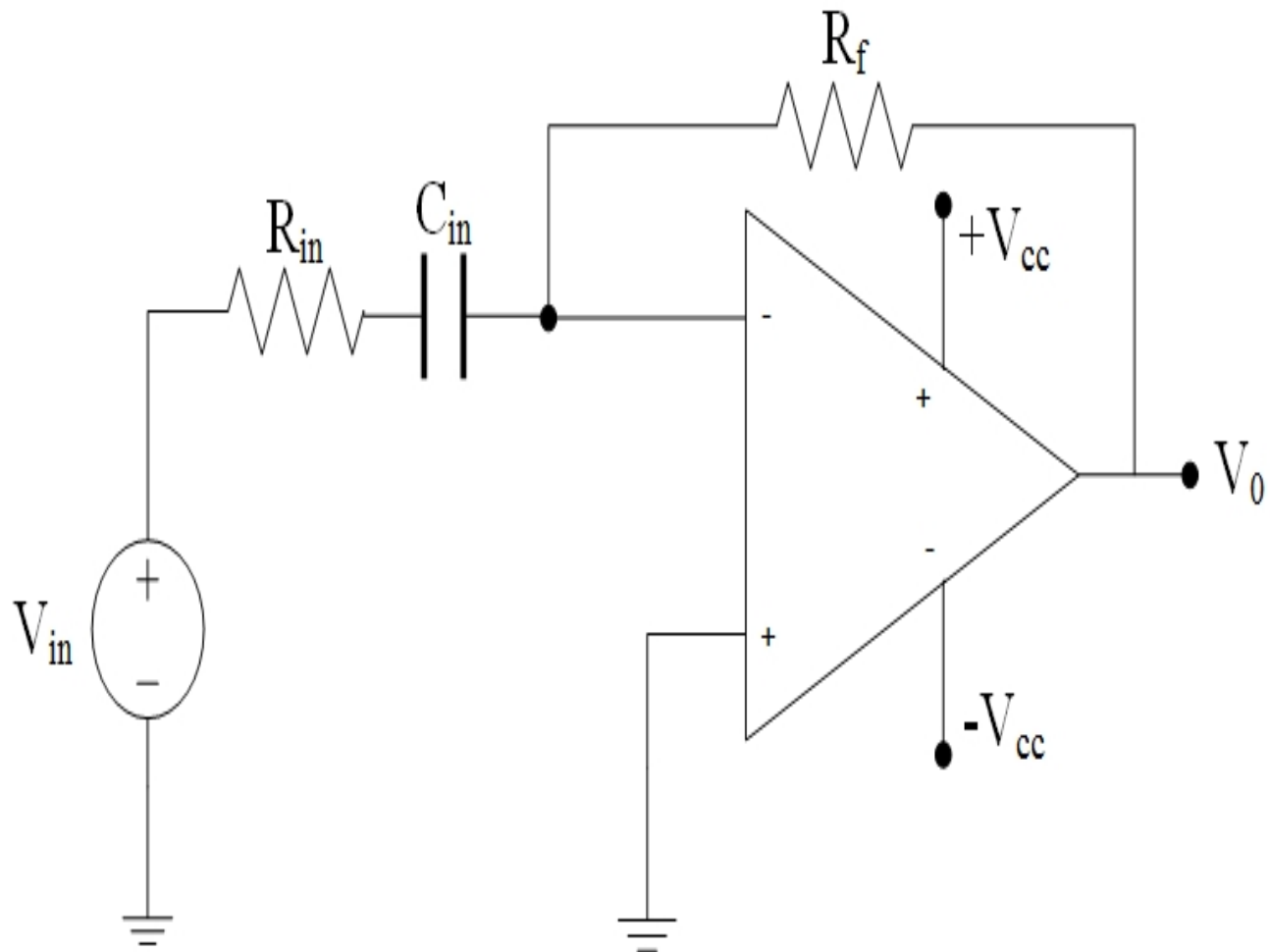
Time taken	37 mins 12 secs
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Grade	100.00 out of 100.00
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Question 1

Correct

Mark 100.00 out of 100.00



Quiz 2d

The operational amplifier is ideal.

Given: $R_{in} = 10 \text{ k}\Omega$ (kilo Ohm) $C_{in} = 0.1 \text{ mF}$ (micro F) $R_f = 14 \text{ k}\Omega$ (kilo Ohm)

$+V_{cc} = 15 \text{ V}$ $-V_{cc} = -15 \text{ V}$

For each question below, report your answer in the form of real + j imaginary

a) Find the steady-state phasor output \mathbf{V}_0 when $V_{in}(t) = 5 \text{ V}$

$\mathbf{V}_0 =$ ☒ + j ☒ Volts

b) Find the steady-state phase output \mathbf{V}_0 when $V_{in}(t) = 5 \cos(500t) \text{ V}$.

$$\mathbf{V}_0 = \boxed{-1.4} \checkmark + j \boxed{-2.8} \checkmark \text{ Volts}$$

c) Find the magnitude of the steady-state phase output \mathbf{V}_0 when $V_{in}(t) = 5 \cos(5,000t)V$.

$$\mathbf{V}_0 = \boxed{-6.73} \checkmark + j \boxed{-1.35} \checkmark \text{ Volts}$$

Correct

Marks for this submission: 100.00/100.00.

◀ Quiz 1 - Chapter 9

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Quiz 3 - Chapter 10 ▶