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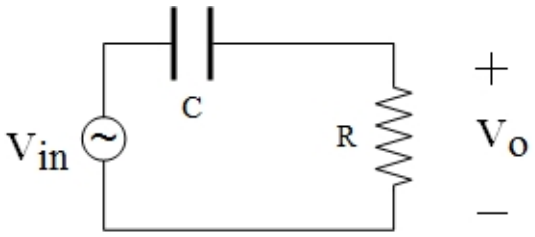
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00



Quiz 9e

Given: C = 2.5 nF (nano F) R = 25 kΩ (kilo Ohm)

a) Find the cutoff frequency f_c for this high-pass filter.

f_c = 2546.479 ✓ Hz

For following answers in polar form, write the answer with a positive magnitude and the smallest appropriate positive angle.

b) Find the H(jω) for H(jω = 0.25ω_c).

H(jω = 0.25ω_c) = 0.242 ✓ at angle 75.963 ✓ ° (Degrees)

c) Find the H(jω) for H(jw = 1.1ω_c).

H(jω = 1.1ω_c) = 0.739 ✓ at angle 42.273 ✓ ° (Degrees)

d) Find the H(jω) for H(jw = 3.5 ω_c).

H(jω = 3.5ω_c) = 0.961 ✓ at angle 15.945 ✓ ° (Degrees)

Numeric Answer

a) f_c = 2,546.4791 Hz

b) H(jω = 0.25ω_c) = 0.2425 at angle 75.96°

c) H(jω = 1.1ω_c) = 0.7399 at angle 42.27°

d) H(jω = 3.5ω_c) = 0.9615 at angle 15.95°

Correct

Marks for this submission: 100.00/100.00.

◀ Quiz 8 - Bode Diagrams

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