EN-3212 Electronics Worksheet 5 AC Circuit Analysis

Graph the following function

 $V(t) = V_{\max} Sin(2\pi ft)$

Where Vmax = 170V and f = 60Hz

Label

V peak, V peak to peak, and the period.

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Draw the circuit for a low pass filter
Write the equation for the low pass filter and capacitive reactance
Sketch a graph of voltage vs frequency and explain why the graph looks the way it does.

EN-3212 Electronics Worksheet 5 AC Circuit Analysis

Draw the circuit for a high pass filter
Write the equation for the low pass filter and capacitive reactance
Sketch a graph of voltage vs frequency and explain why the graph looks the way it does.