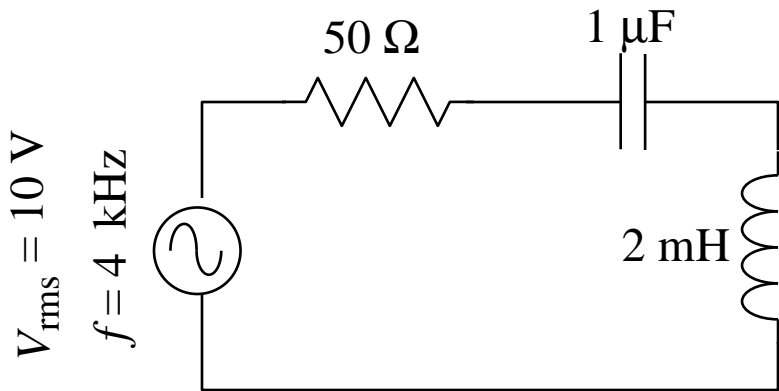


## Quiz 6

- (A) Calculate the total impedance of the circuit. (B) Calculate the rms current flowing. (C) Calculate the rms voltage drop across each of the three components:  $R$ ,  $C$  and  $L$ . (D) Draw a phasor diagram displaying how those three voltage drops add up to equal the 10 V source. (E) On your phasor diagram label the angle that shows the phase difference between the current and the total (source) voltage. (F) Circle one:    the total voltage leads the current;    the current leads the total voltage



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