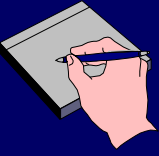


# Example

## Resonance in Radios



An AC circuit with  $R = 2 \Omega$ ,  $L = 0.30 \mu\text{H}$  and variable capacitance is connected to an antenna to receive radio signals at the resonance frequency. If you want to listen to music broadcasted at 96.1 MHz, what value of  $C$  should be used?

