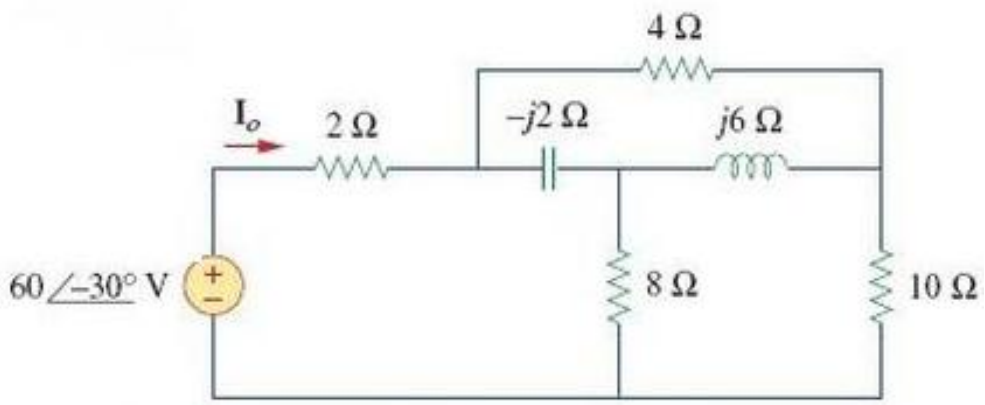
Course No: EQUP 2302 **Course Title: Electric Circuits II.** **Date: 11 / 03 / 2017** **No. of Questions: ____3___** **Time: 60 min.** **Using Calculator (Yes)**	**University of Palestine** **1st. Midterm Exam** **2nd Term 2016/2017** **Total Grade: 20**	**Instructor Name: Eng. M. Timraz** **Student No.: _____** **Student Name: _____** **College Name: Engineering** **Dep. / Specialist: Biomedical Eng.** **Using Dictionary (No)**

Q1) Find Io in the circuit below: (05/15)



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Using Dictionary (No)

Q2) If an R = 0.5-kΩ resistor, is connected in series with a combined parallel capacitor C = 5-μF, and an L = 2-mH inductor with a V(t) = 50 sin (200t) volts source, what is the maximum current delivered by the source? Draw the circuit (05/15)

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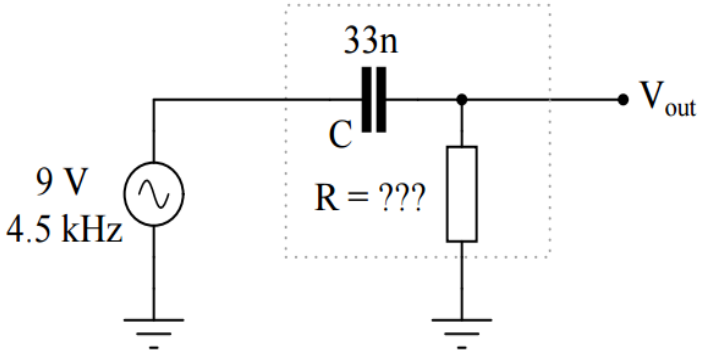
Q3) Determine the necessary resistor value to give the output voltage a phase shift of 58^{o}? (5/15)



Good Luck.