

NAME _____

1. The equation for capacitive reactance is _____?
 - a. $\frac{1}{2\pi fL}$
 - b. $2\pi fC$
 - c. $\frac{1}{2\pi fC}$
 - d. $2\pi fL$

2. The equation for inductive reactance is _____?
 - a. $\frac{1}{2\pi fL}$
 - b. $2\pi fC$
 - c. $\frac{1}{2\pi fC}$
 - d. $2\pi fL$

3. As frequency increases capacitive reactance _____?
 - a. Stays the same
 - b. Increases
 - c. Decreases
 - d. Goes negative

4. As frequency increases inductive reactance _____?
 - a. Stays the same
 - b. Increases
 - c. Decreases
 - d. Goes negative

5. Reactance lies on which axis of the complex plane?
 - a. X
 - b. Y
 - c. Z
 - d. Imaginary
 - e. B and D

6. Capacitive reactance on the complex plane is?
 - a. Positive
 - b. Negative

7. Inductive reactance on the complex plane is?

- a. Positive
- b. Negative

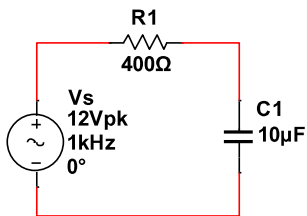
8. $250 - j440$ in polar notation is?

- a. $-506\angle -60$
- b. $506\angle -60$
- c. $-506\angle 60$
- d. $506\angle 60$

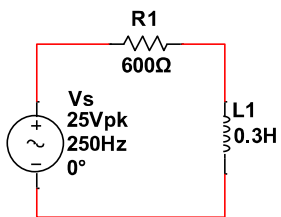
9. $25\angle 40$ in rectangular form is?

- a. $-19.2 + j16.1$
- b. $19.2 + j16.1$
- c. $19.2 - j16.1$
- d. $-19.2 - j16.1$

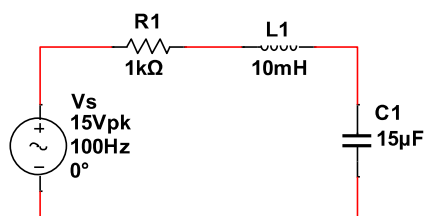
10. Find Z_T , I_T and phase angle between V_s and I_T



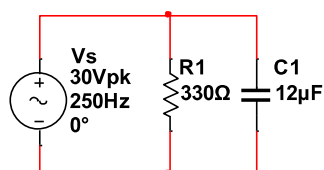
11. Find Z_T , I_T and phase angle between V_s and I_T



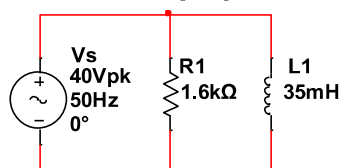
12. Find Z_T , I_T and phase angle between V_s and I_T



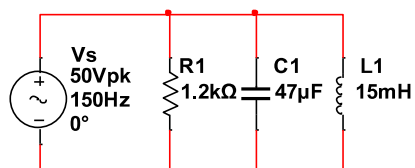
13. Find Z_T , I_T and phase angle between V_s and I_T



14. Find Z_T , I_T and phase angle between V_s and I_T



15. Find Z_T , I_T and phase angle between V_s and I_T



16. Find Z_T , I_T and phase angle between V_s and I_T

