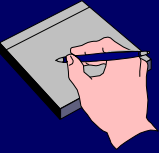


Drawing Phasor Diagrams



(1) Resistor vector: to the right

- Length given by $V_{R,\max}$ (or R)

(2) Capacitor vector: Downwards

- Length given by $V_{C,\max}$ (or X_C)

(3) Inductor vector: Upwards

- Length given by $V_{L,\max}$ (or X_L)

(4) Generator vector: add first 3 vectors

- Length given by $V_{\text{gen},\max}$ (or Z)

(5) Rotate entire thing counter-clockwise

- Vertical components give instantaneous voltage across R, C, L

