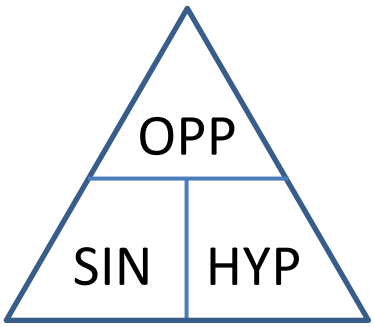
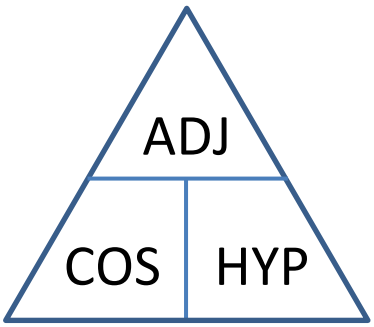
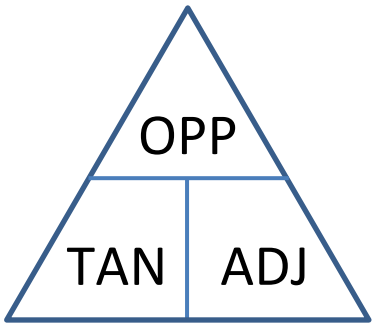
Right angle triangle



S O H



CAH



TOA

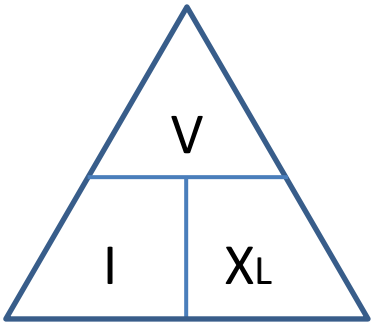
Inductive reactance

$$X_L = 2\pi fL$$

$$L = \frac{X_L}{2\pi f}$$

$$f = \frac{X_L}{2\pi L}$$

X_L = inductive reactance in ohms (Ω)
f = frequency of the supply in hertz (Hz)
L = inductance in henrys (H)
π = pi (3.14159….)



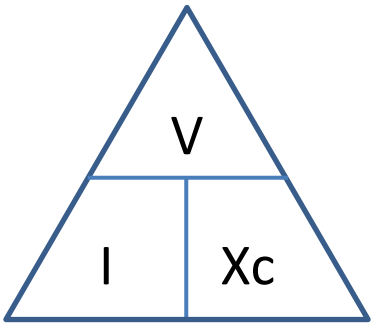
Capacitive reactance

$$X_C = \frac{1}{2\pi f C}$$

$$C = \frac{1}{2\pi f X_C}$$

$$f = \frac{1}{2\pi C X_C}$$

XC = capacitive reactance in ohms (Ω)
f = frequency of the supply in hertz (Hz)
C = capacitance in farads (F)
π = pi (3.14159….)



deci	d	0.1	10^{-1}
centi	c	0.01	10^{-2}
milli	m	0.001	10^{-3}
micro	μ	0.000001	10^{-6}
nano	n	0.000000001	10^{-9}
pico	p	0.000000000001	10^{-12}