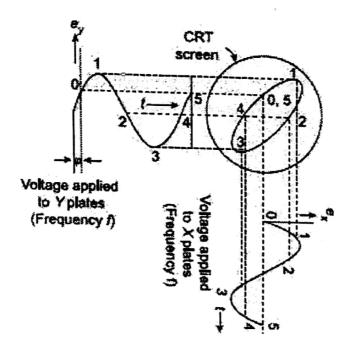


Figure 3.18 Determination of angle of phase shift



Lissajous pattern with two equal voltages of same frequency and phase shift of Φ

sinusoidal waveforms of the same frequency produce a pattern which may be a straight line, a circle or an ellipse upon the phase and the magnitude of the voltages.

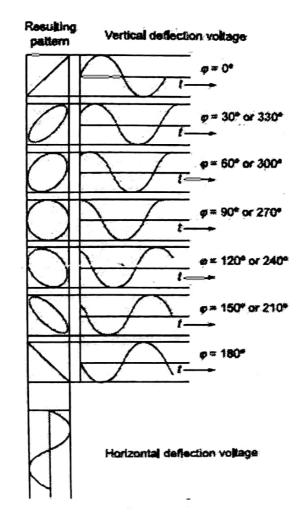


Figure 3.17 Lissajous pattern with different phase shift

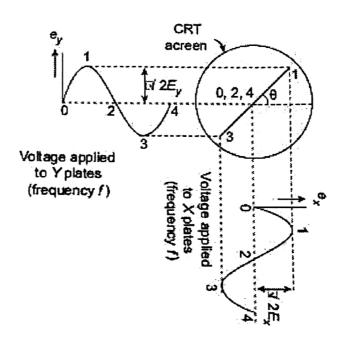


Figure 3.14 Lissajous pattern with equal frequency voltages and zero phase shift

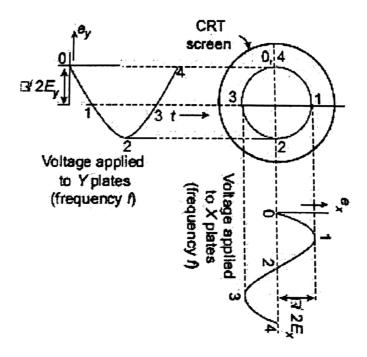
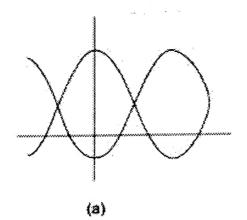
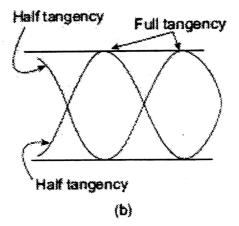


Figure 3.15 Lissajous pattern with equal voltages and a phase shift of 90°





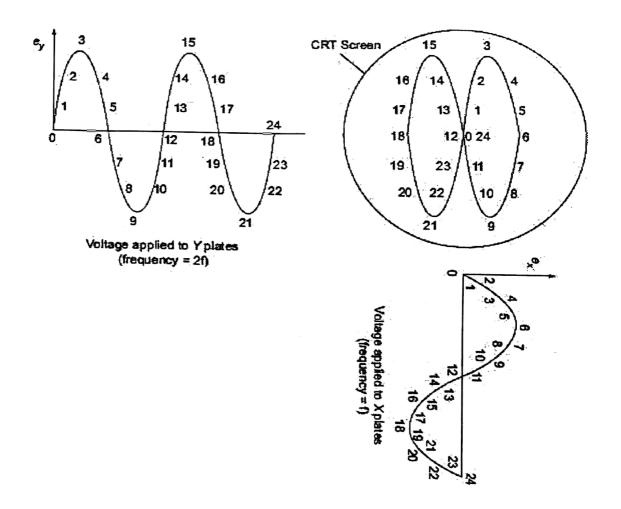


Figure 3.11 Lissajous pattern with frequency ratio 2:1

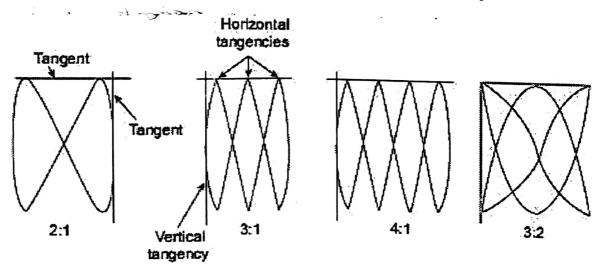


Figure 3.12 Lissajous patterns with different frequency ratio