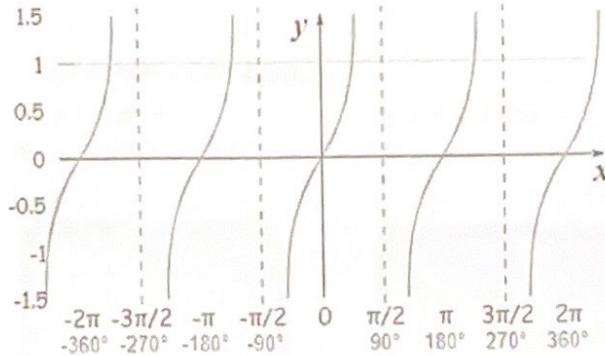


Reviewing Tangents $y = \tan\theta$

Amp: \swarrow Per: $\frac{\pi}{180^\circ}$ V.S: \swarrow P.S: \swarrow

Plot of the Tangent Function

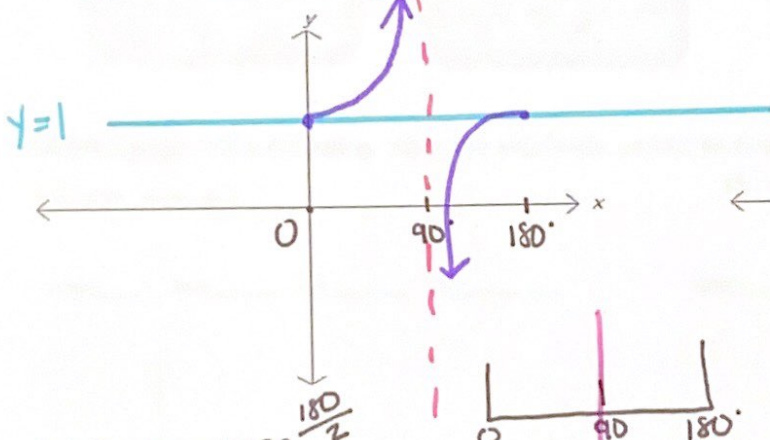
The Tangent function has a completely different shape ... it goes between negative and positive Infinity, crossing through 0, and at every π radians (180°), as shown on this plot.



At $\pi/2$ radians (90°), and at $-\pi/2$ (-90°), $3\pi/2$ (270°), etc, the function is officially **undefined**, because it could be positive Infinity or negative Infinity.

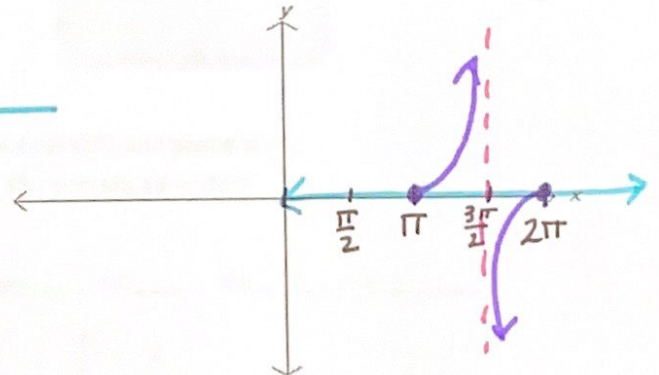
Ex 1. Graph $y = \tan\theta + 1$

Amp: \swarrow Per: 180° V.S: \swarrow P.S: \swarrow



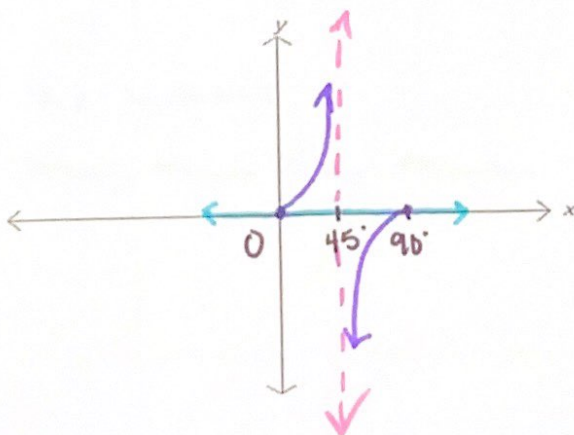
Ex 2. Graph $y = \tan(\theta - \pi)$

Amp: \swarrow Per: π V.S: \swarrow P.S: \swarrow



Ex 3. Graph $y = \tan 2\theta$

Amp: \swarrow Per: 90° V.S: \swarrow P.S: \swarrow



Ex 4. Graph $y = 2 \tan\theta$

Amp: \swarrow Per: π V.S: \swarrow P.S: \swarrow

