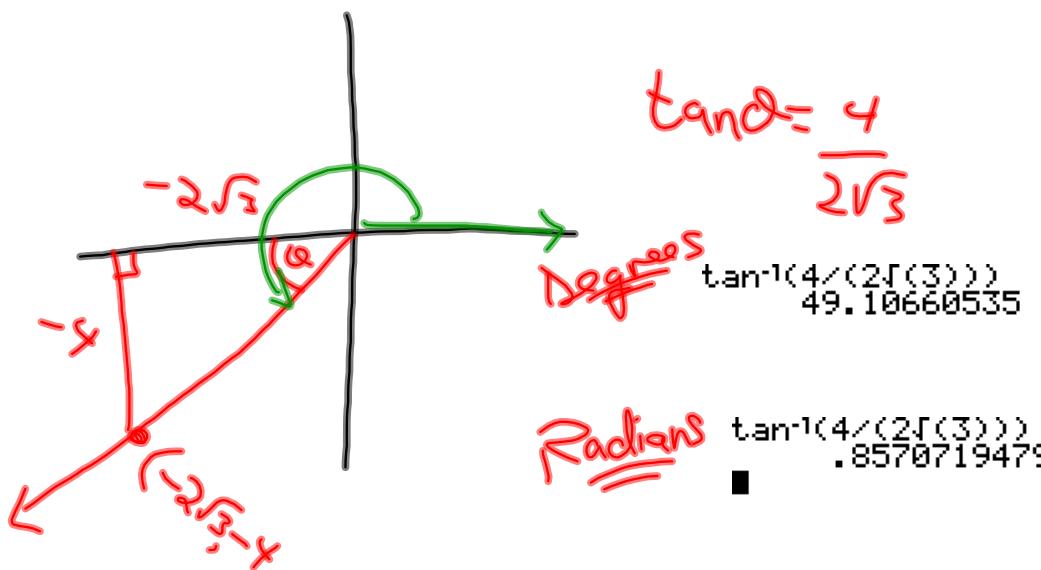


Example

Determine the measure (in radians) of an angle whose terminal arm passes through the ordered pair $(-2\sqrt{3}, -4)$



$$\tan^{-1}(4/(2\sqrt{3}))$$

Degrees:

$$\theta = 49^\circ + 180^\circ$$

$$\theta = 229^\circ$$

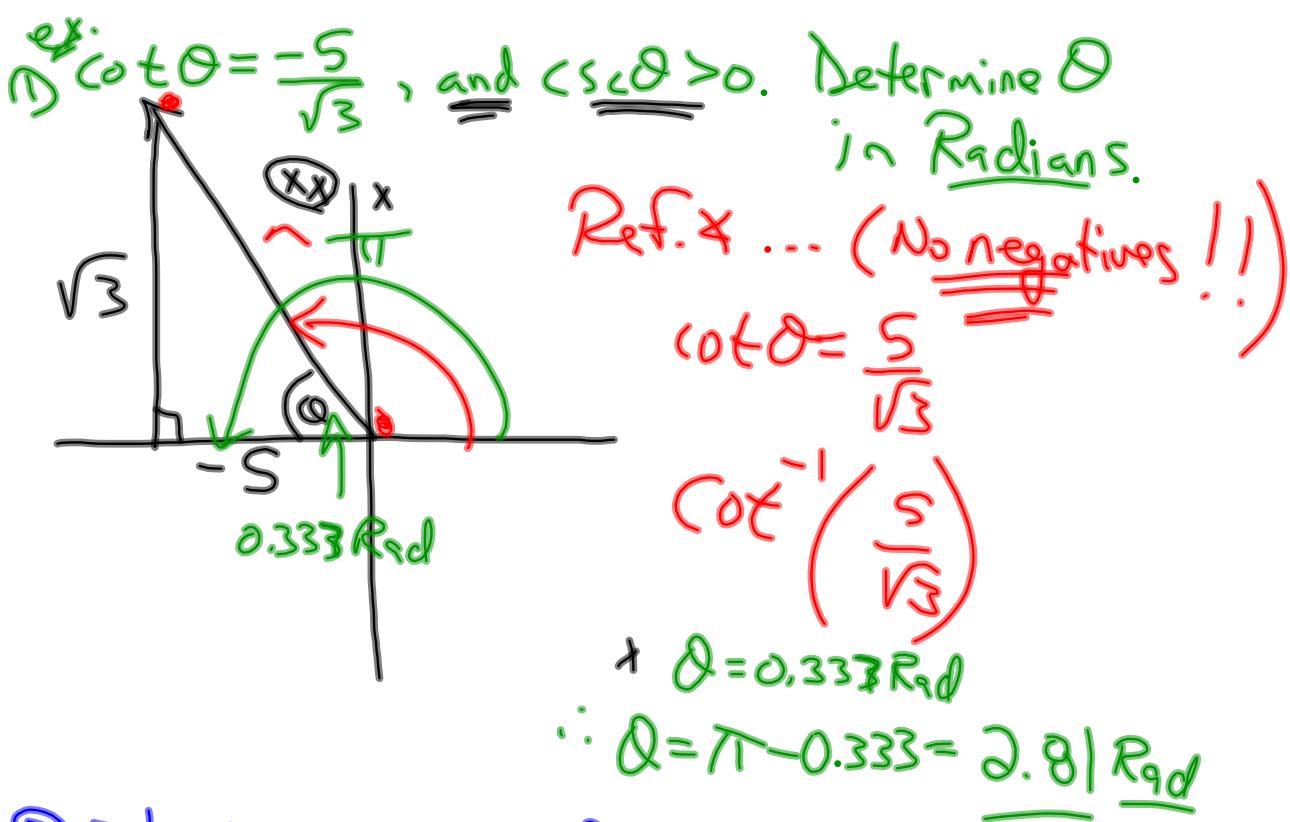
Radians:

$$\theta = 0.857 + \pi$$

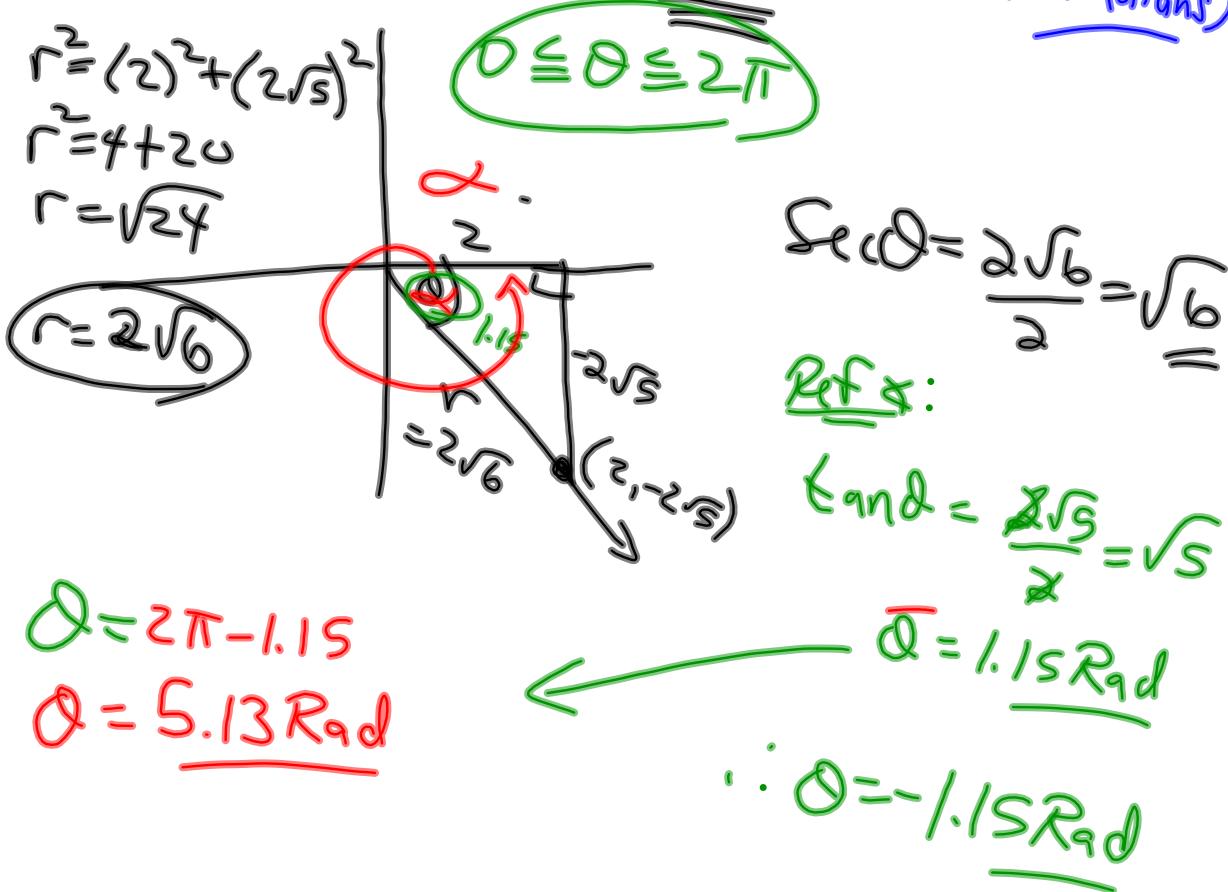
$$\theta = 3.99 \text{ Rad}$$

Rad:

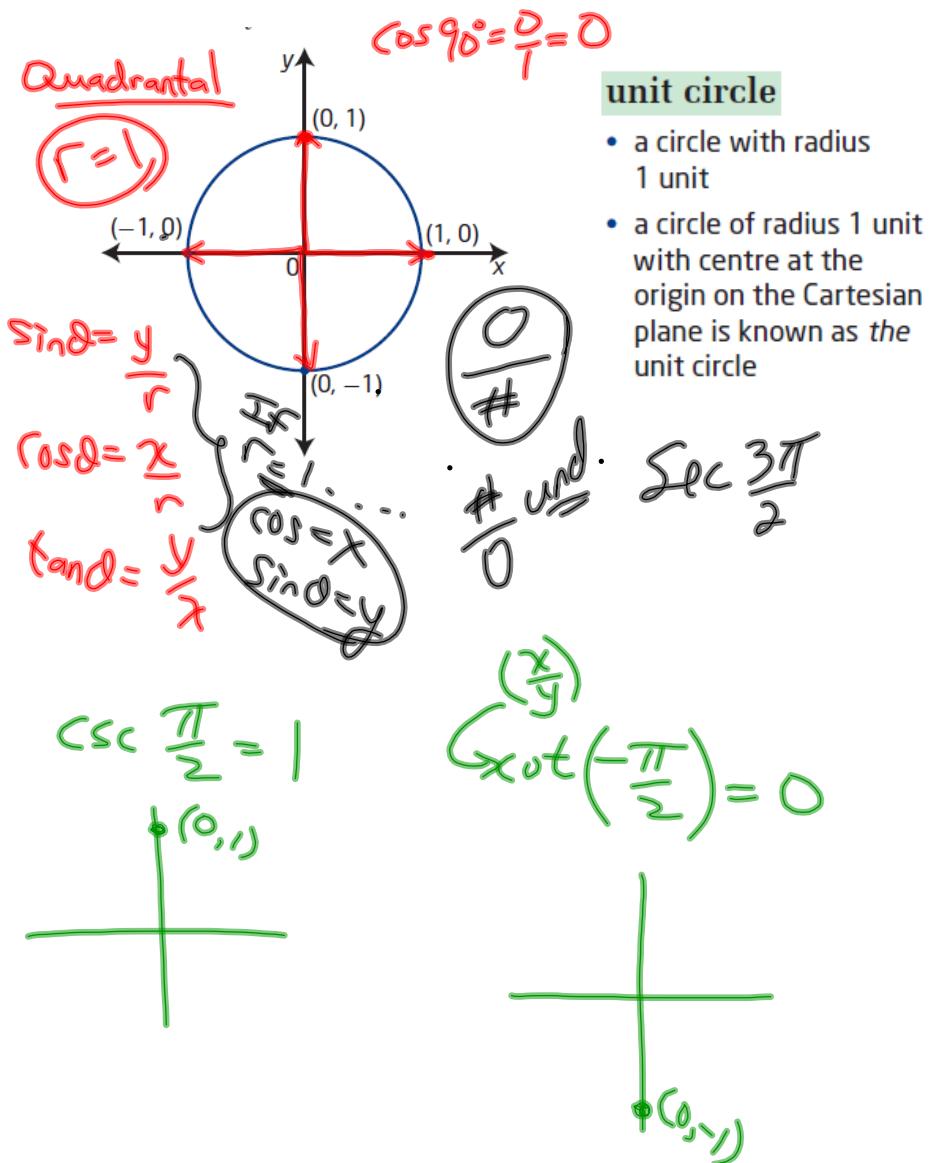
$$\theta = \frac{229\pi}{180}$$



② The terminal arm of θ passes through $(2, -2\sqrt{5})$. Determine $\sec \theta$ and θ (in Radians)



Unit Circle

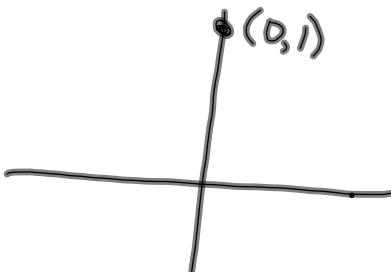


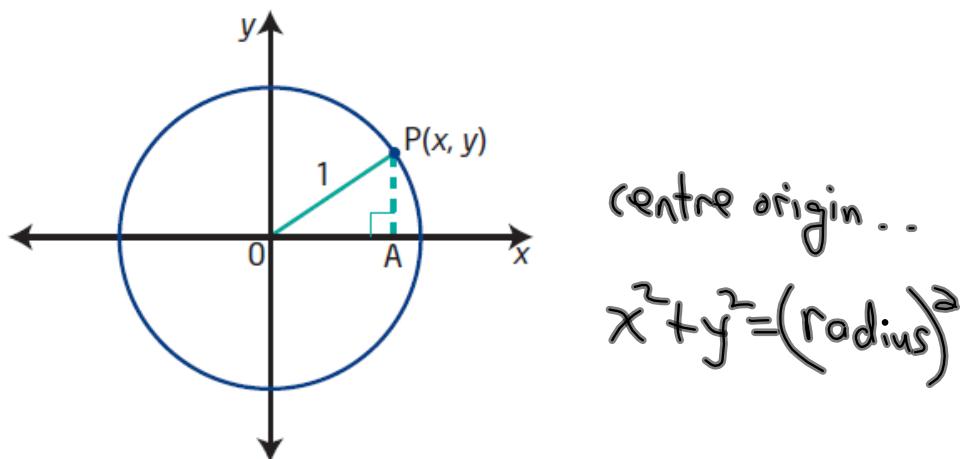
A Cartesian coordinate system showing the graph of the function $y = \csc(3753\pi)$. The x-axis is labeled "undefined" under a horizontal line. A point on the curve is labeled with its coordinates $(-1, 0)$.

$$\cos \frac{473\pi}{2} = 0$$

$$= \frac{472\pi}{2} + \frac{\pi}{2}$$

$$= 236\pi + \frac{\pi}{2}$$





The equation of the unit circle is $x^2 + y^2 = 1$.

Determine the equation of a circle with centre at the origin and radius 6.

$$\underline{x^2 + y^2 = 36}$$