

6.21 Alternative Trig Solution

$$\boxed{\sin(\theta)^4 = -\cos(\theta)} \xrightarrow{\text{solve}} ?$$

can't find analytical solution

$$f(\theta) := \sin(\theta)^4 + \cos(\theta)$$

$\theta := 0$ $\boxed{\text{root}(f(\theta), \theta)} = ? \text{ deg}$ can't find numerical solution at poor initial guess

$\theta := 2.3$ $\text{root}(f(\theta), \theta) = 121.661 \text{ deg}$ see plot below

$$\theta := -\pi, -\pi + 0.01.. \pi$$

