

using trace intercept

$$y := 1.9358$$
$$x := 0.5026$$

differentiating f(x)

$$\frac{d}{dx} f(x) = -1.3$$

$$\frac{d}{dx} g(x) = -0.26$$

$$\theta_1 := \text{atan}\left(\frac{d}{dx} f(x)\right)$$

$$\theta_1 = -52.431 \text{ deg}$$

$$\theta_2 := \text{atan}\left(\frac{d}{dx} g(x)\right)$$

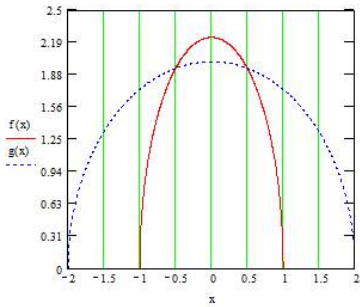
$$\theta_2 = -14.554 \text{ deg}$$

$$\text{magnitude} := \theta_2 - \theta_1$$

$$\text{magnitude} = 37.876 \text{ deg}$$

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$$f(x) := \sqrt{5 - 5x^2}$$
$$g(x) := \sqrt{4 - x^2}$$



using trace intercept

$$v := 1.9358$$
$$x := 0.5026$$

differentiating f(x)

$$\frac{d}{dx} f(x) = -1.3$$