

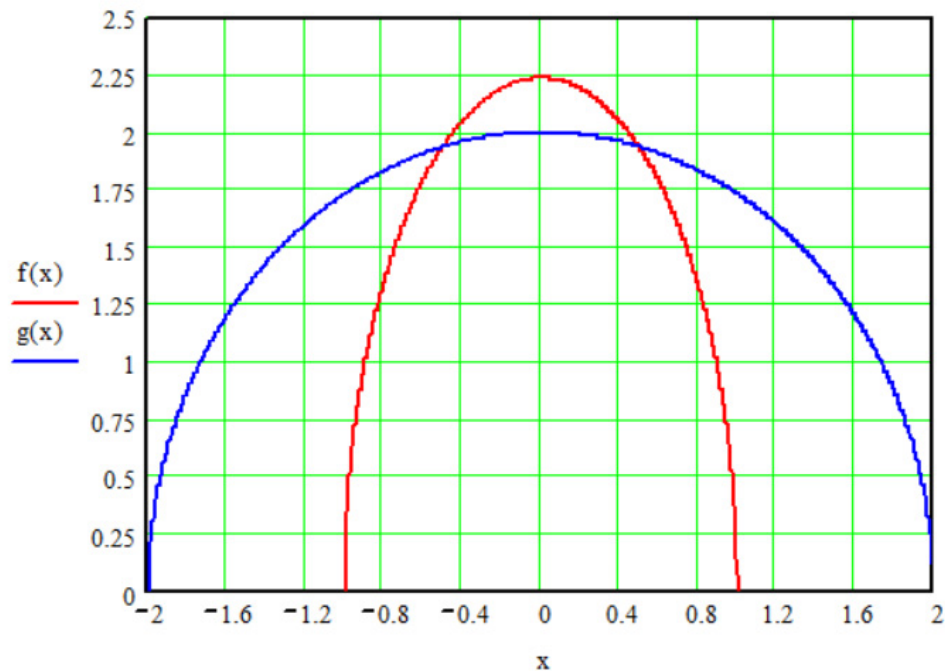
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MAT NO - 18/ENG02/095

DEPT - Computer Eng

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

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



+

$$x := -0.49627$$

$$y := 1.9413$$

$$\left( \frac{d}{dx} f(x) \right) = 1.278$$

$$\left( \frac{d}{dx} g(x) \right) = 0.256$$

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

$$\theta_1 = 51.962 \text{ deg}$$

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

$$\theta_2 = 14.367 \text{ deg}$$

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

$$\text{Magnitude} = -37.595 \text{ deg}$$