

Mathcad Professional - [Olori kekere]

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Normal Arial 10 B I U 100% ?

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

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

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Trace intercept:
 $x := 0.50159$ the angle between them is;
 $y := 1.9361$
 $\theta := \theta_y - \theta_x$

Differentiating $f(x)$:
 $\theta := -14.525 - (-52.356)$
 $\theta := 37.831$

$\frac{d}{dx} f(x) = -1.296$

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

$\theta_x = -52.356 \text{ deg}$

Differentiating $h(x)$:
 $\frac{d}{dx} h(x) = -0.259$

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

$\theta_y = -14.525 \text{ deg}$

Press F1 for help.

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