I10WEDGES

Fringes of a wedge given by y.

The distance is given by yy

$\alpha := .002 \qquad \lambda 1 := .0005 \qquad \lambda 2 := .0008$

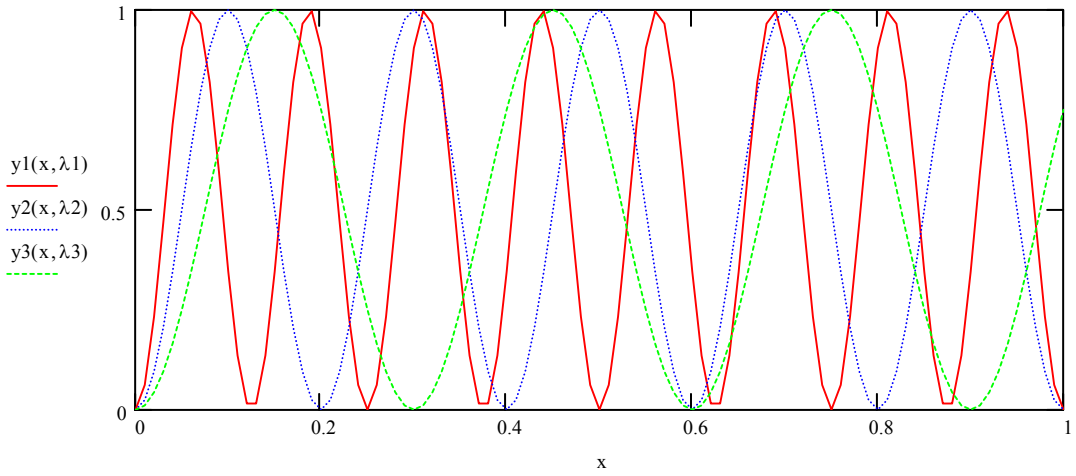
$x := 0, .01 .. 1$

$$y1(x, \lambda 1) := \cos\left(2 \cdot \pi \cdot x \cdot \frac{\tan(\alpha)}{\lambda 1} + \frac{\pi}{2}\right)^2$$

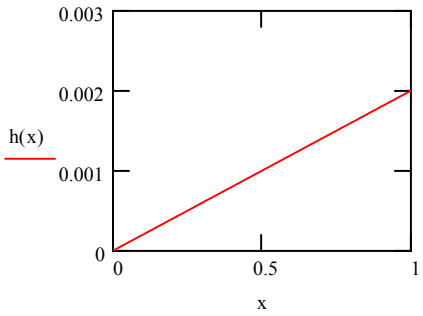
$\lambda 3 := .0012$

$$y2(x, \lambda 2) := \cos\left(2 \cdot \pi \cdot x \cdot \frac{\tan(\alpha)}{\lambda 2} + \frac{\pi}{2}\right)^2$$

$$y3(x, \lambda 3) := \cos\left(2 \cdot \pi \cdot x \cdot \frac{\tan(\alpha)}{\lambda 3} + \frac{\pi}{2}\right)^2$$



Height at x $\qquad h(x) := x \cdot \tan(\alpha)$



Distance between two Maxima depending on α $xx = \lambda/(2 \tan \alpha)$

$$\lambda := .0001, .0002 .. .0015$$

$$xx(\lambda) := \frac{\lambda}{2 \cdot \tan(\alpha)}$$