

## M8POLIN

### Linearly polarized light.

Graph of  $\cos(2\pi x/360)$  on x-axis and  $\cos(2\pi x/360 + \Phi)$  on y-axis

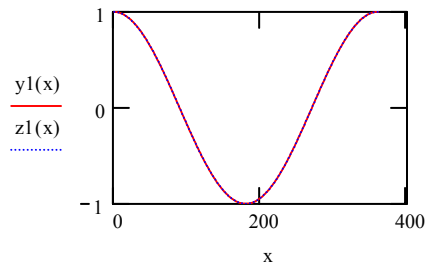
$$x := 1, 2, \dots, 360$$

#### 1. Before entering the birfringent plate $X = 0$

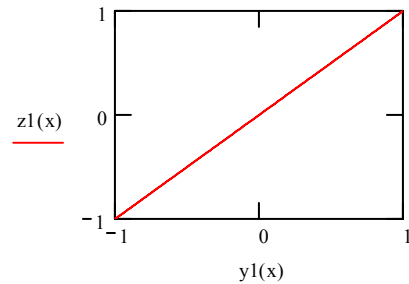
$$\phi_1 := 0$$

$$y_1(x) := \cos\left(2\pi \cdot \frac{x}{360}\right) \quad z_1(x) := \cos\left(2\pi \cdot \frac{x}{360} + \frac{2\pi \cdot \phi_1}{360}\right)$$

Each separate



One plotted against the other

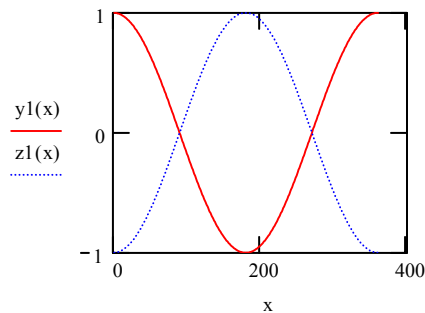


#### 2. At the plane $X = L$

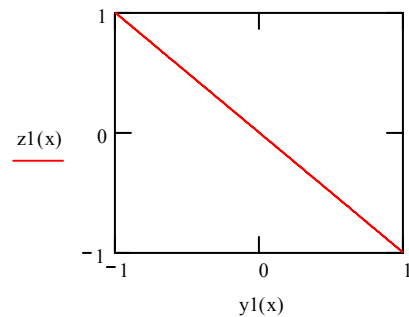
$$\phi_2 := 180$$

$$y_1(x) := \cos\left(2\pi \cdot \frac{x}{360}\right) \quad z_1(x) := \cos\left(2\pi \cdot \frac{x}{360} + \frac{2\pi \cdot \phi_2}{360}\right)$$

Each separate



One plotted against the other



The resulting vibration is along the diagonal