

> restart

> SolucionVerticalSeis :=  $y(t) = -\frac{98067}{20000} t^2 + \frac{481}{20390} \sqrt{1861607} \sqrt{2} t + 2$

$$\text{SolucionVerticalSeis} := y(t) = -\frac{98067}{20000} t^2 + \frac{481}{20390} \sqrt{1861607} \sqrt{2} t + 2 \quad (1)$$

> SolucionHorizontalSeis :=  $x(t) = \frac{481}{20390} \sqrt{3723214} t + 5$

$$\text{SolucionHorizontalSeis} := x(t) = \frac{481}{20390} \sqrt{3723214} t + 5 \quad (2)$$

> with(plots) :

> TiempoVueloSeis :=  $\frac{481000}{199958613} \sqrt{1861607} \sqrt{2} - \frac{200}{199958613} \sqrt{21942878468257},$   
 $\frac{481000}{199958613} \sqrt{1861607} \sqrt{2} + \frac{200}{199958613} \sqrt{21942878468257}$

$$\text{TiempoVueloSeis} := \frac{481000}{199958613} \sqrt{1861607} \sqrt{2} - \frac{200}{199958613} \sqrt{21942878468257}, \quad (3)$$
$$\frac{481000}{199958613} \sqrt{1861607} \sqrt{2} + \frac{200}{199958613} \sqrt{21942878468257}$$

>

>

> plot([rhs(SolucionHorizontalSeis), rhs(SolucionVerticalSeis), t = 0 ..TiempoVueloSeis[2]],  
scaling = constrained)

