

# P8

## 8. PRAKTIKA: GRAFIKOEN ANIMAZIOA

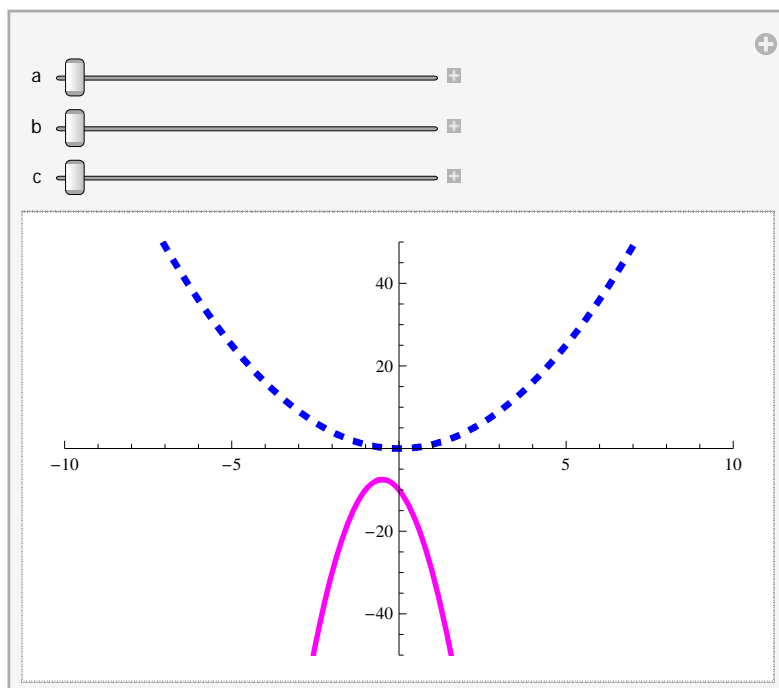
### ▼ Proposatutako Ariketa P- 8.1

a, b eta c parametroen menpeko  $ax^2+bx+c$  parabola familia grafikoki bistaratu.

### ▼ Soluzioa P- 8.1

#### ★ Planoa

```
Clear["Global`*"]
Manipulate[Plot[{x^2, a * x^2 + b * x + c}
, {x, -10, 10},
PlotStyle -> {{Blue, Thickness[0.010], Dashing[0.015]}, {Magenta, Thickness[0.008]}},
PlotRange -> {{-10, 10}, {-50, 50}}, {a, -10, 10, 3}, {b, -10, 10, 1}, {c, -10, 10, 1}]
```



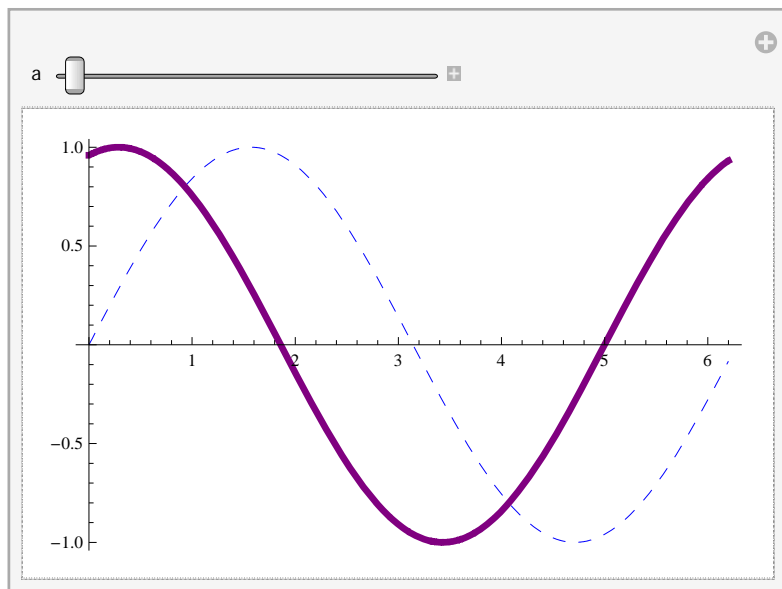
### ▼ Proposatutako Ariketa P- 8.2

a parametroaren menpeko  $\sin(a+x)$ ,  $\sin(a*x)$  eta  $a*\sin x$  sinusoide familia grafikoki bistaratu Manipulate agindua erabilita.

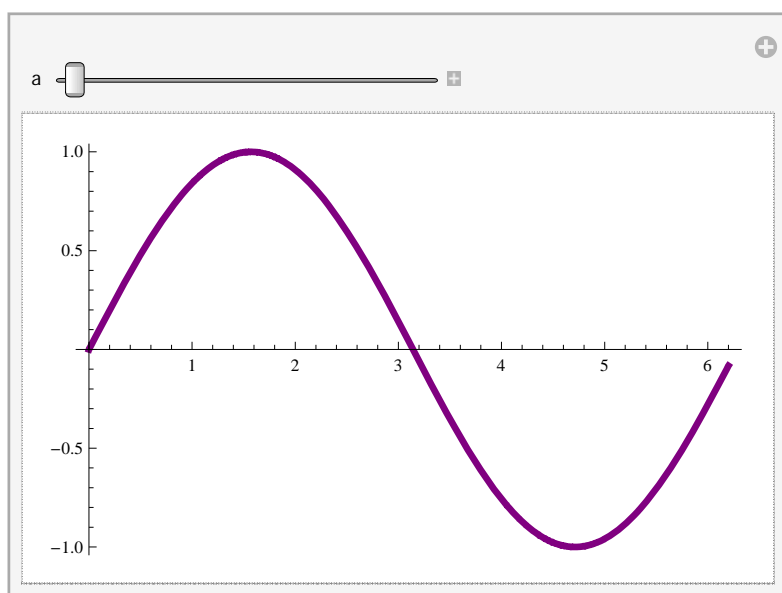
## ▼ Soluzioa P- 8.2

## ★ Manipulate erabilita

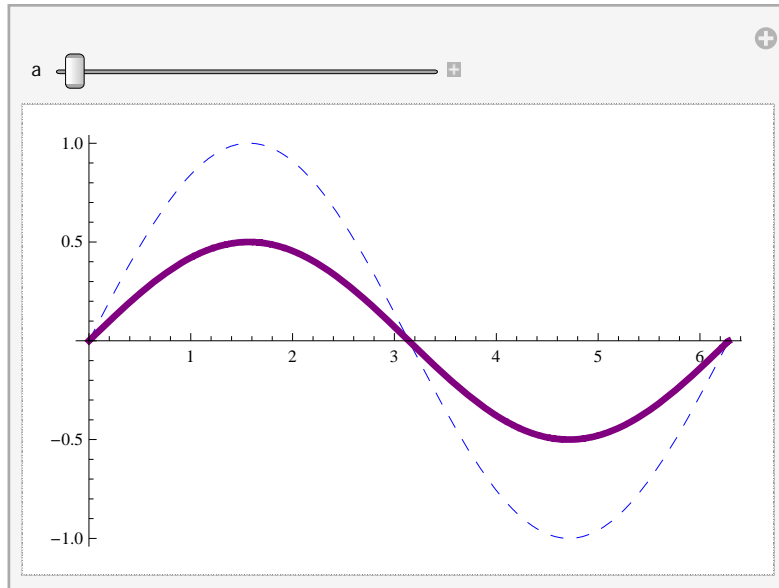
```
Manipulate[Plot[{Sin[x], Sin[a + x]}, {x, 0, 6.2},  
  PlotStyle → {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}, {a, -5, 5}]
```



```
Manipulate[Plot[{Sin[x], Sin[a * x]}, {x, 0, 6.2},  
  PlotStyle → {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}, {a, 1, 10, 1}]
```



```
Manipulate[Plot[{Sin[x], a Sin[x]}, {x, 0, 6.28},  
  PlotStyle -> {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}], {a, 0.5, 2}]
```



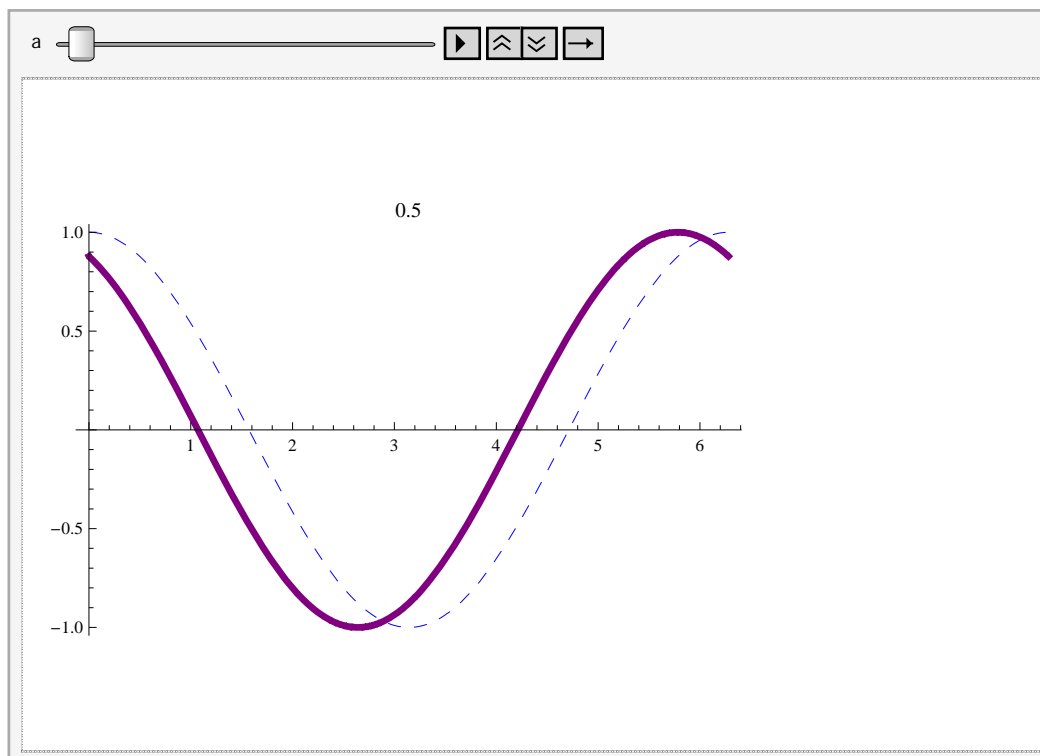
### ▼ Proposatutako Ariketa P- 8.3

a parametroaren menpeko  $\cos(a+x)$ ,  $\cos(a*x)$  eta  $a*\cos x$  sinusoide familia grafikoki bistaratu Animate agindua erabilia.

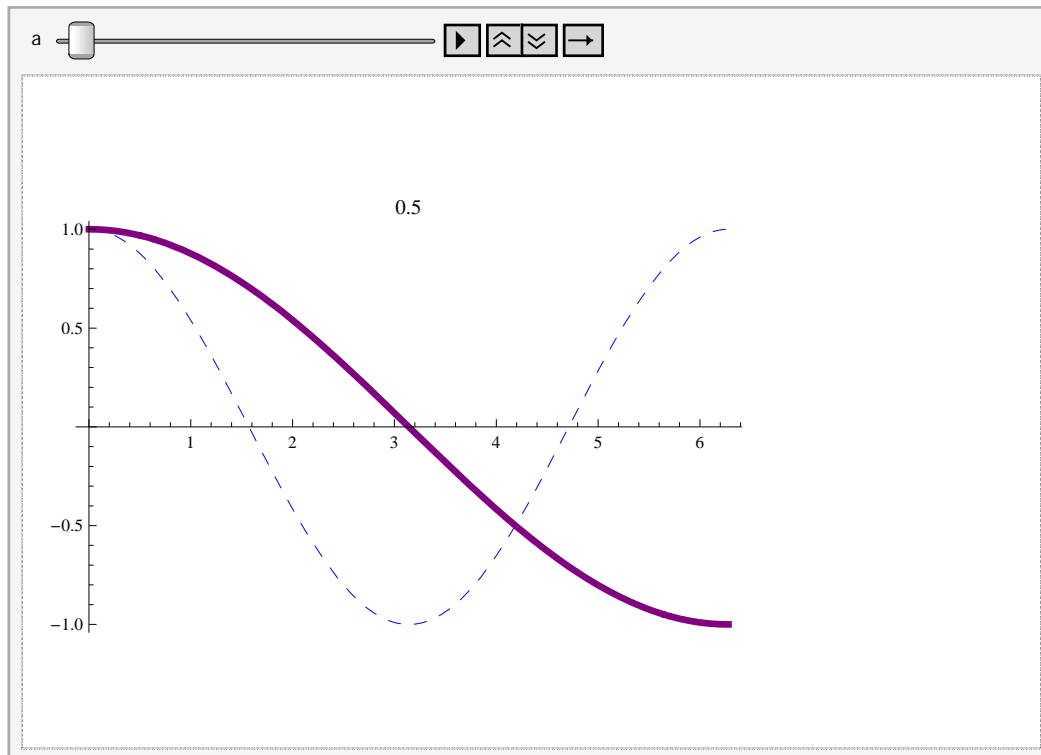
## ▼ Soluzioa P- 8.3

## ★ Animate erabilita

```
Animate[Plot[{Cos[x], Cos[a + x]}, {x, 0, 6.28},  
PlotStyle -> {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}, PlotLabel -> a],  
{a, 0.5, 2}, AnimationRunning -> False]
```



```
Animate[Plot[{Cos[x], Cos[a x]}, {x, 0, 6.28},  
  PlotStyle -> {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}, PlotLabel -> a],  
  {a, 0.5, 2}, AnimationRunning -> False]
```



```
Animate[Plot[{Cos[x], a * Cos[x]}, {x, 0, 6.28},  
  PlotStyle -> {{Blue, Dashing[0.02]}, {Purple, Thickness[0.01]}}, PlotLabel -> a],  
  {a, 0.5, 2}, AnimationRunning -> False]
```

