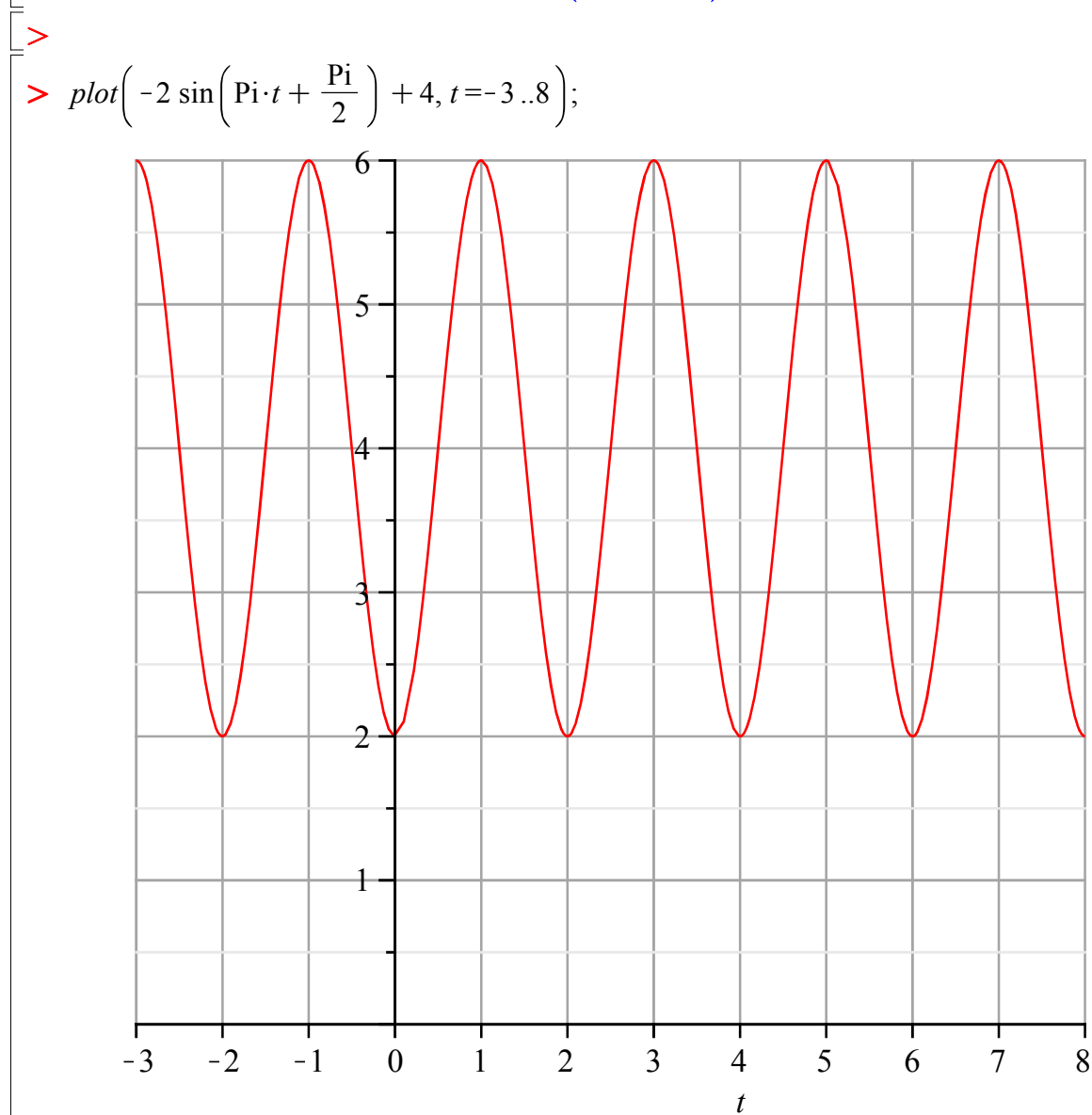


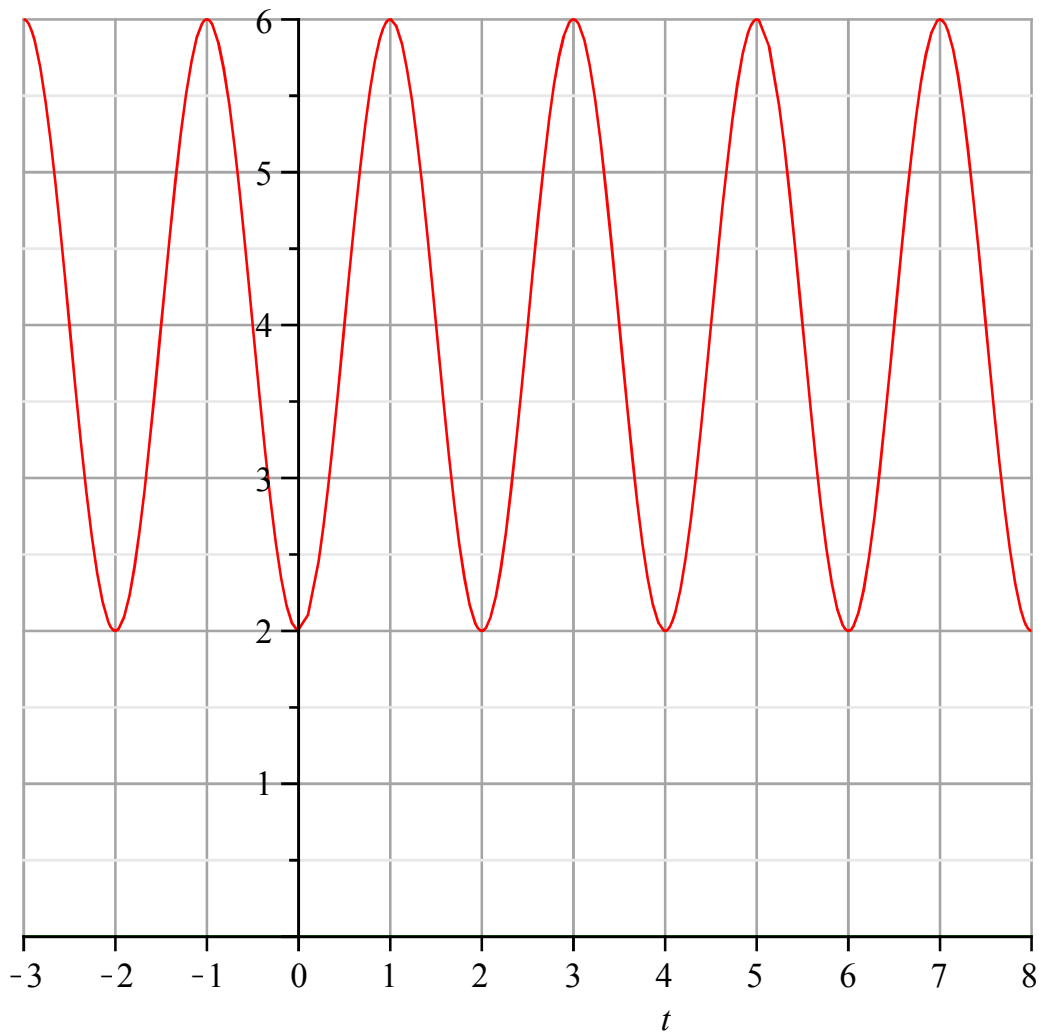
Estas son algunas gráficas de funciones senoidales en la cuales hay distintos ángulos de desfase y frecuencia con gráficas iguales a las del control11.

```
>
> f := -2 sen( Pi·t +  $\frac{\text{Pi}}{2}$  ) + 4;
       $f := -2 \operatorname{sen}\left(\pi t + \frac{1}{2} \pi\right) + 4$  (1)
```



```
> f := -2 sen( Pi·t +  $\frac{5 \text{ Pi}}{2}$  ) + 4;
       $f := -2 \operatorname{sen}\left(\pi t + \frac{5}{2} \pi\right) + 4$  (2)
>
```

```
> plot( [-2 sin(Pi·t +  $\frac{5 \text{ Pi}}{2}$ ) + 4, t=1], t=-3..8);
```



```
>
```

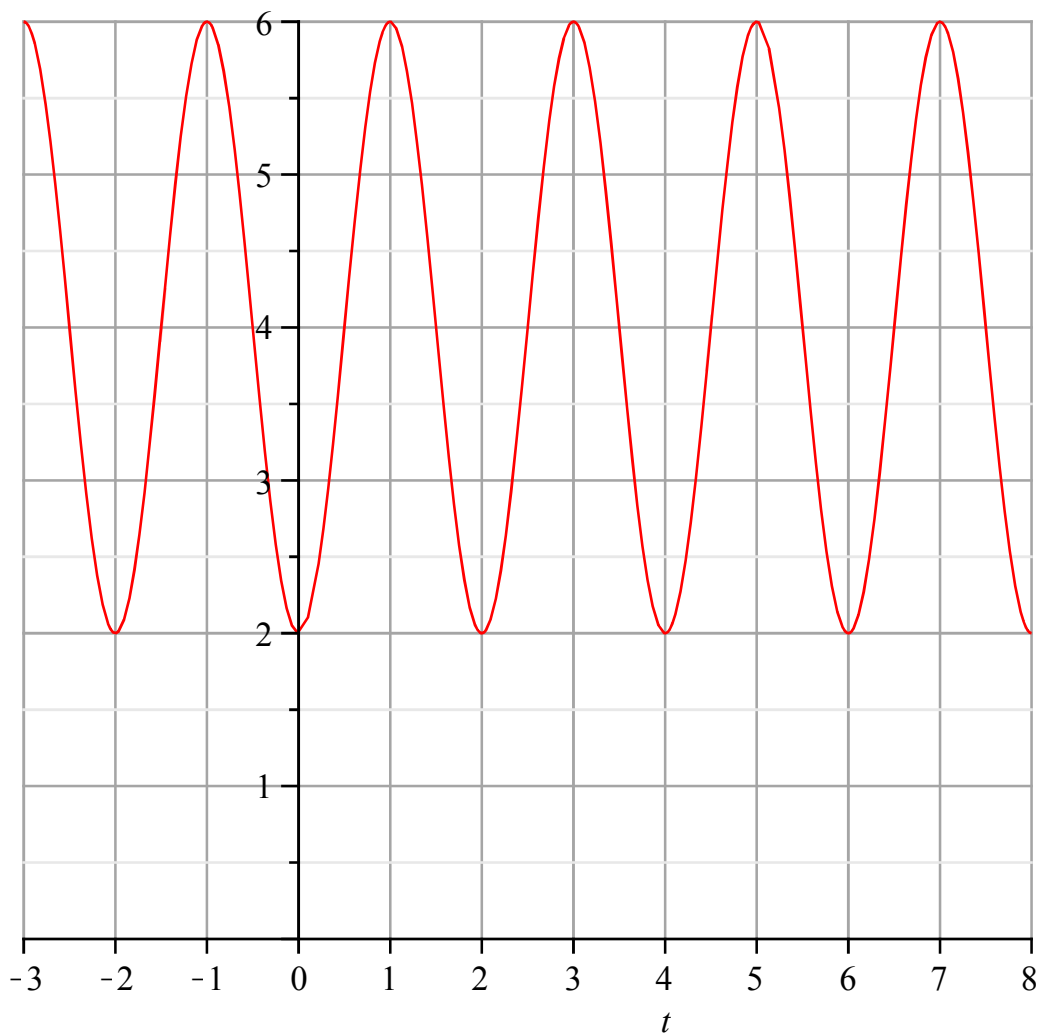
```
> g := -2 sen( -Pi·t +  $\frac{\text{Pi}}{2}$  ) + 4;
```

$$g := -2 \operatorname{sen}\left(-\pi t + \frac{1}{2} \pi\right) + 4$$

(3)

```
>
```

```
> plot( -2 sin( -Pi·t +  $\frac{\text{Pi}}{2}$  ) + 4, t=-3..8);
```

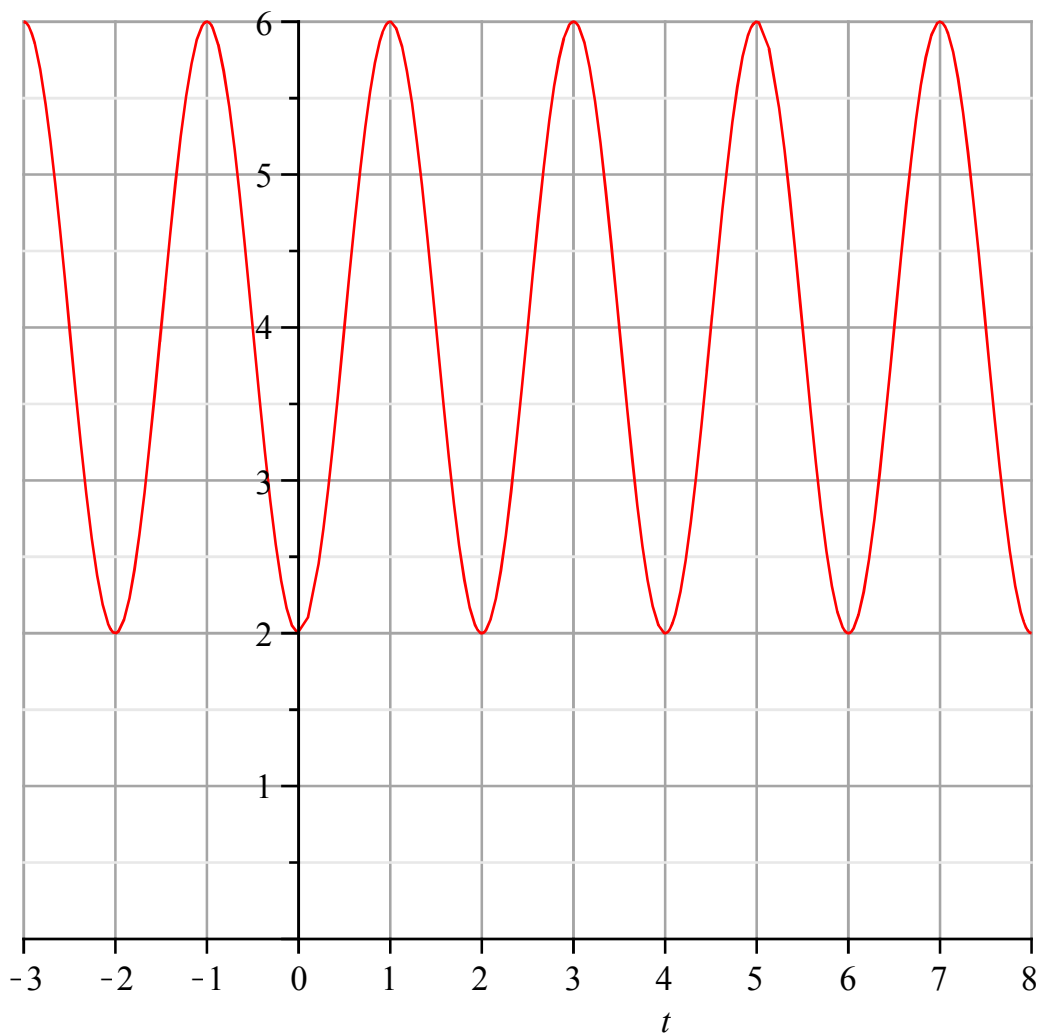


```
> h := -2 sen\left(-\text{Pi}\cdot t + \frac{5 \text{ Pi}}{2}\right) + 4;
```

$$h := -2 \operatorname{sen}\left(-\pi t + \frac{5}{2} \pi\right) + 4$$

(4)

```
> plot\left(-2 \sin\left(-\text{Pi}\cdot t + \frac{5 \text{ Pi}}{2}\right) + 4, t=-3..8\right);
```

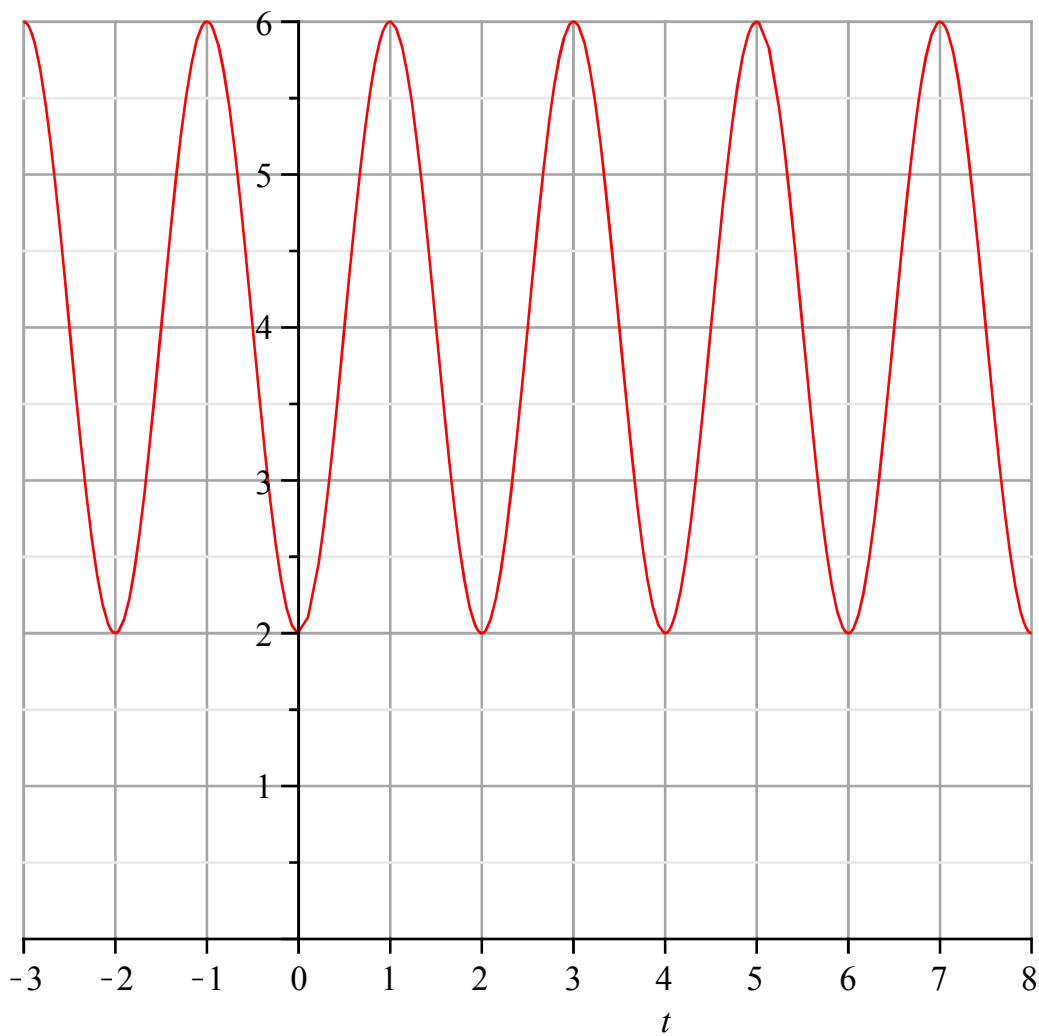


> $p := -2 \operatorname{sen}\left(-\text{Pi} \cdot t + \frac{9 \text{ Pi}}{2}\right) + 4$

$$p := -2 \operatorname{sen}\left(-\pi t + \frac{9}{2} \pi\right) + 4$$

(5)

> $\operatorname{plot}\left(-2 \sin\left(-\text{Pi} \cdot t + \frac{9 \text{ Pi}}{2}\right) + 4, t = -3 \dots 8\right);$

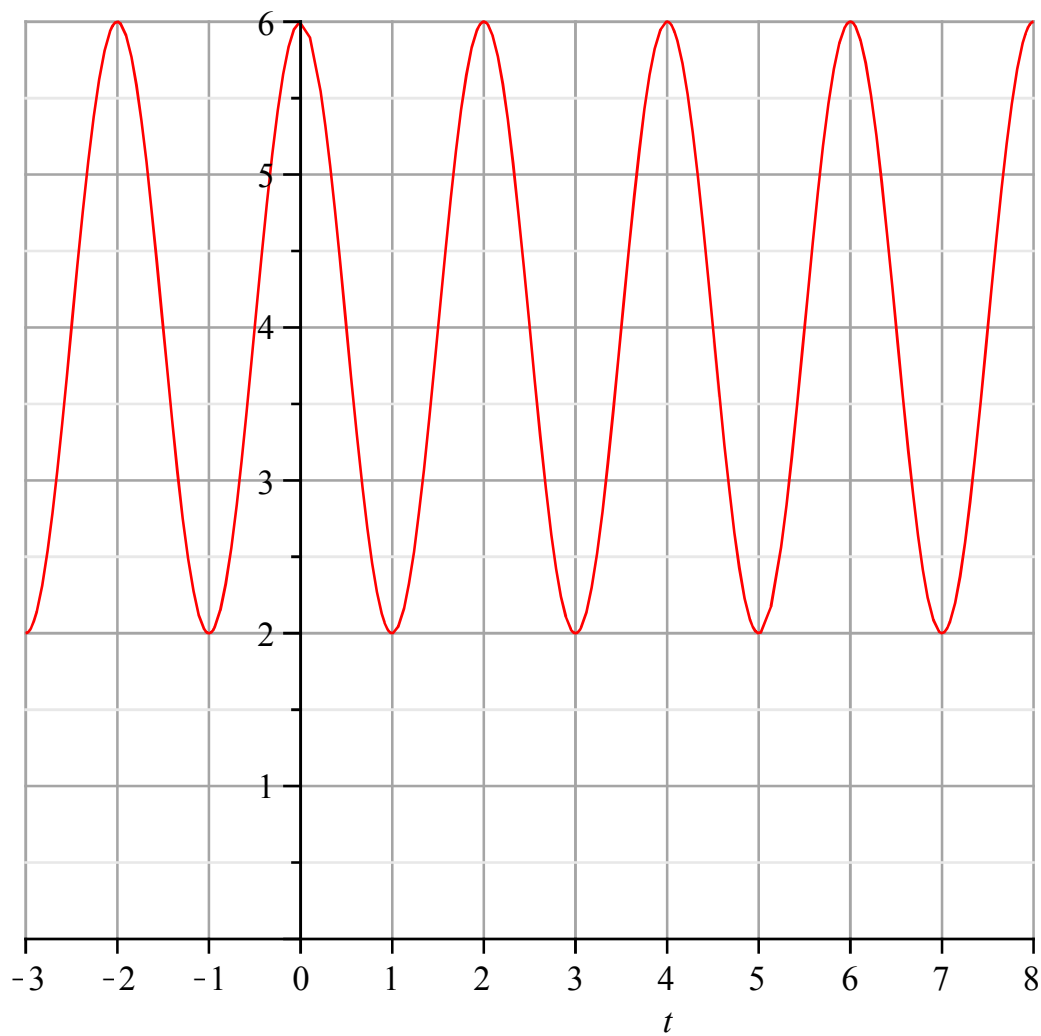


```
> q := -2 sen\left(-\text{Pi}\cdot t - \frac{\text{Pi}}{2}\right) + 4
```

$$q := -2 \operatorname{sen}\left(-\pi t - \frac{1}{2} \pi\right) + 4$$

(6)

```
> plot\left(-2 \sin\left(-\text{Pi}\cdot t - \frac{\text{Pi}}{2}\right) + 4, t=-3..8\right);
```

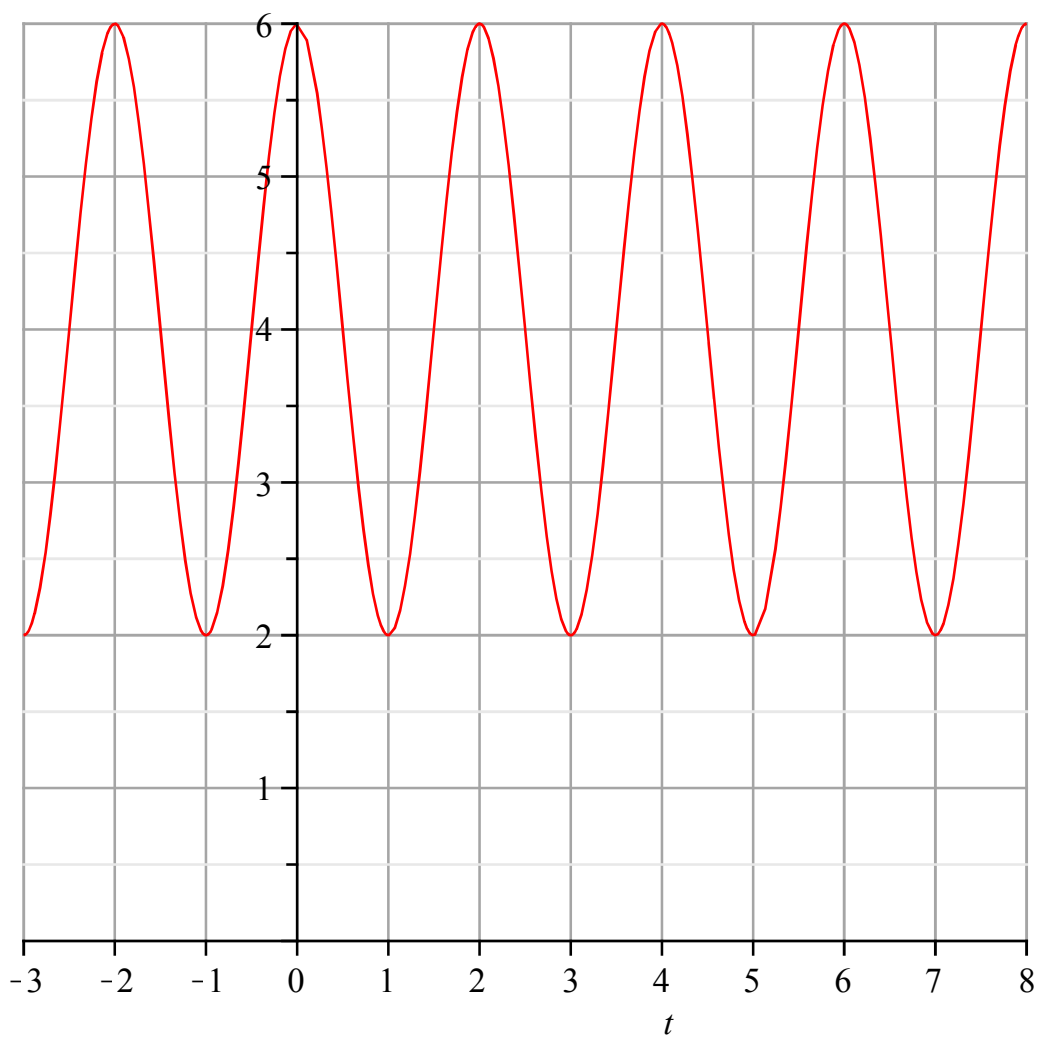


```
> q := -2 sen\left(-\text{Pi}\cdot t - \frac{5 \text{ Pi}}{2}\right) + 4
```

$$q := -2 \operatorname{sen}\left(-\pi t - \frac{5}{2} \pi\right) + 4$$

(7)

```
> plot\left(-2 \sin\left(-\text{Pi}\cdot t - \frac{5 \text{ Pi}}{2}\right) + 4, t=-3 ..8\right);
```



$\square >$