

Graph for 1 period

Key

Examples

1. $y = \sin x$

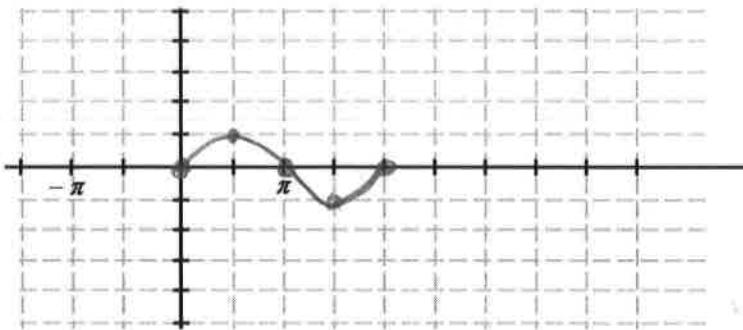
Vert. Shift: none

Phase Shift: none

Amplitude: 1

Period: 2π

Curve: sin



2. $y = \cos x$

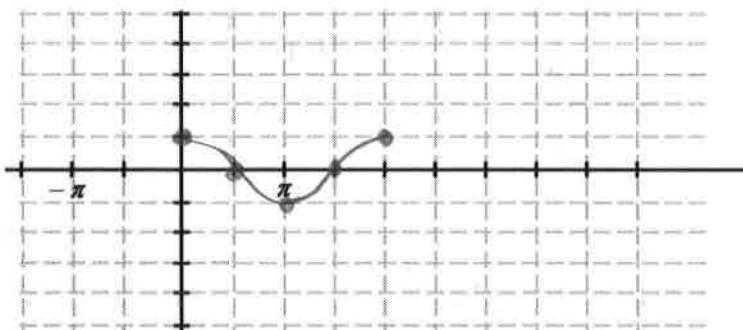
Vert. Shift: —

Phase Shift: —

Amplitude: 1

Period: 2π

Curve: cos



3. $y = 3 \cos x$

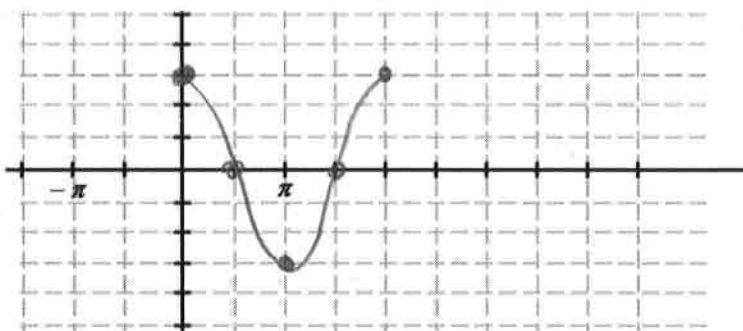
Vert. Shift: —

Phase Shift: —

Amplitude: 3

Period: 2π

Curve: cos



4. $y = \sin 2x$

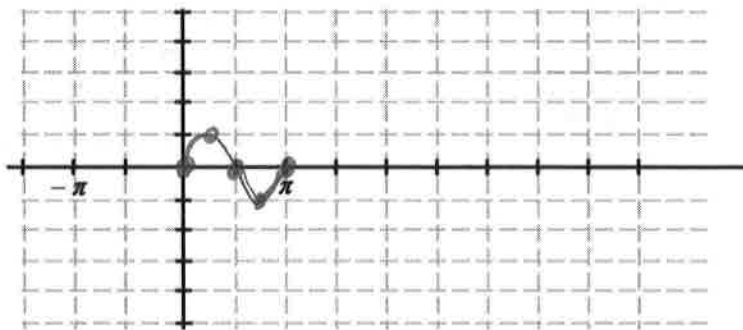
Vert. Shift: —

Phase Shift: —

Amplitude: 1

Period: $\frac{2\pi}{2} = \pi$

Curve: sin



5. $y = -2 \sin x + 1$

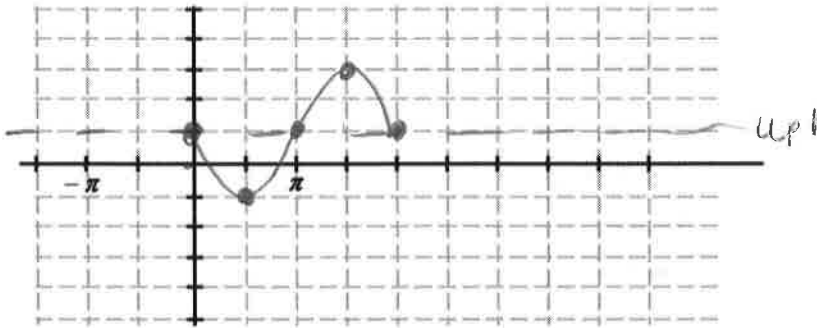
Vert. Shift: up 1

Phase Shift: —

Amplitude: 2

Period: 2π

Curve: $-\sin$



6. $y = \cos\left(x - \frac{\pi}{4}\right) - 2$

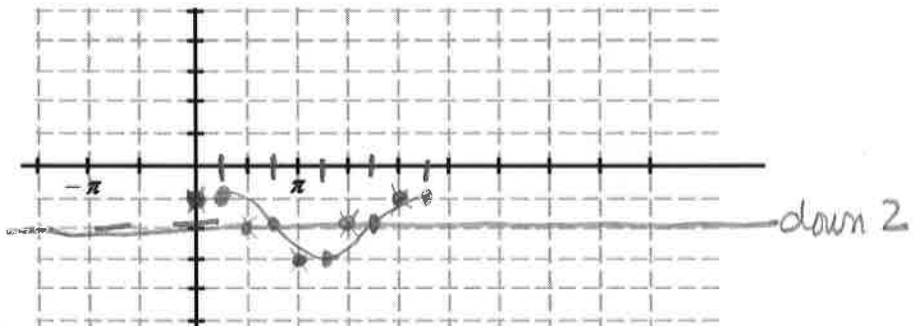
Vert. Shift: down 2

Phase Shift: right $\frac{\pi}{4}$

Amplitude: 1

Period: 2π

Curve: \cos



7. $y = -3 \cos\left(\frac{1}{2}\left(x - \frac{\pi}{3}\right)\right)$

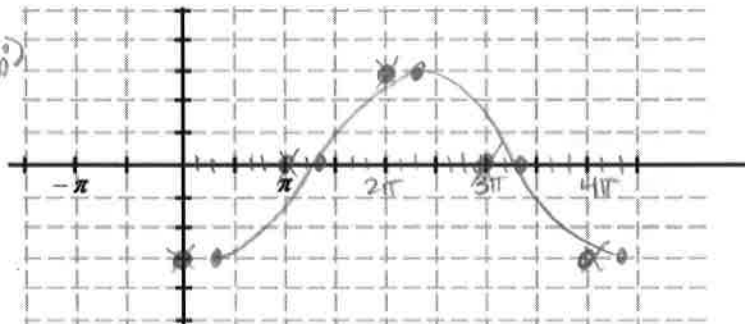
Vert. Shift: —

Phase Shift: right $\frac{\pi}{3}$ (ω^2)

Amplitude: 3

Period: $\frac{2\pi}{1/2} = 4\pi$

Curve: $-\cos$



8.

Vert. Shift:

Phase Shift:

Amplitude:

Period:

Curve:

