Amplitude, Period & Midline of Sine and Cosine · 1

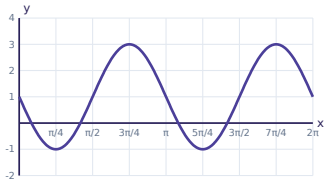
Find the period of y = 4cos(6x) - 2 as a multiple of π: period = ___π

Amplitude, Period & Midline of Sine and Cosine · 2

Find the minimum value of y = -3cos(8x) + 5.

Amplitude, Period & Midline of Sine and Cosine · 3

Find the equation of the midline of the sinusoid shown.



Amplitude, Period & Midline of Sine and Cosine · 4

Write an equation y = a cos(bx) + d with a > 0, amplitude 2, period π and midline y = -5.

Amplitude, Period & Midline of Sine and Cosine · 5

Find the amplitude of the sinusoid shown.



Amplitude, Period & Midline of Sine and Cosine · 6

Find the period of y = 3sin(x) as a multiple of π: period = ___π

Amplitude, Period & Midline of Sine and Cosine · 7

Write an equation y = a cos(bx) + d with a > 0, amplitude 1, period π/4 and midline y = -1.

Amplitude, Period & Midline of Sine and Cosine · 8

Find the period of y = 4sin(4x) as a multiple of π: period = ___π

Amplitude, Period & Midline of Sine and Cosine · 2

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 1

ANSWER

$\frac{1}{3}$

Amplitude, Period & Midline of Sine and Cosine · 4

ANSWER

$y = 2\cos(2x) - 5$

Amplitude, Period & Midline of Sine and Cosine · 3

ANSWER

$y = 1$

Amplitude, Period & Midline of Sine and Cosine · 6

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 5

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 8

ANSWER

$\frac{1}{2}$

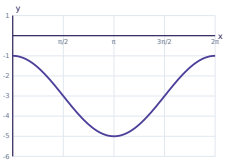
Amplitude, Period & Midline of Sine and Cosine · 7

ANSWER

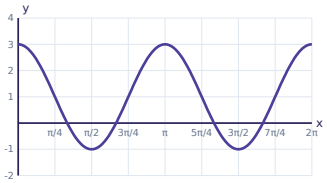
$y = \cos(8x) - 1$

Find the minimum value of $y = \sin(2x) + 1$.

Find the period of the sinusoid shown as a multiple of π: period = ___π

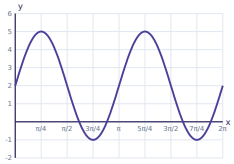


Find the equation of the midline of the sinusoid shown.



Write an equation $y = a\sin(bx) + d$ with $a > 0$, amplitude 6, period $\pi/3$ and midline $y = -2$.

Find the amplitude of the sinusoid shown.



Find the period of $y = 3\cos(2x) - 5$ as a multiple of π: period = ___π

Write an equation $y = a\cos(bx) + d$ with $a > 0$, amplitude 6, period 2π and midline $y = 1$.

Find the period of $y = 5\sin(5x) - 5$ as a multiple of π: period = ___π

Amplitude, Period & Midline of Sine and Cosine · 10

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 9

ANSWER

0

Amplitude, Period & Midline of Sine and Cosine · 12

ANSWER

$y = 6\sin(6x) - 2$

Amplitude, Period & Midline of Sine and Cosine · 11

ANSWER

$y = 1$

Amplitude, Period & Midline of Sine and Cosine · 14

ANSWER

1

Amplitude, Period & Midline of Sine and Cosine · 13

ANSWER

3

Amplitude, Period & Midline of Sine and Cosine · 16

ANSWER

$$\frac{2}{5}$$

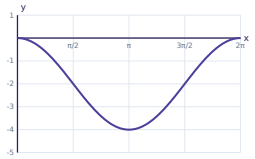
Amplitude, Period & Midline of Sine and Cosine · 15

ANSWER

$y = 6\cos(x) + 1$

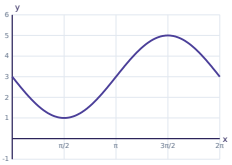
Find the minimum value of y = cos(3x).

Find the period of the sinusoid shown as a multiple of π: period = ___π



Write an equation y = a cos(bx) + d with a > 0, amplitude 4, period 2π and midline y = -4.

Find the amplitude of the sinusoid shown.



Find the period of y = -sin(2x) - 2 as a multiple of π: period = ___π

Write an equation y = a cos(bx) + d with a > 0, amplitude 3, period 2π/3 and midline y = 2.

Find the period of y = 3sin(3x) + 2 as a multiple of π: period = ___π

Find the minimum value of y = -2cos(3x) - 4.

Amplitude, Period & Midline of Sine and Cosine · 18

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 17

ANSWER

-1

Amplitude, Period & Midline of Sine and Cosine · 20

ANSWER

2

Amplitude, Period & Midline of Sine and Cosine · 19

ANSWER

$y = 4\cos(x) - 4$

Amplitude, Period & Midline of Sine and Cosine · 22

ANSWER

$y = 3\cos(3x) + 2$

Amplitude, Period & Midline of Sine and Cosine · 21

ANSWER

1

Amplitude, Period & Midline of Sine and Cosine · 24

ANSWER

-6

Amplitude, Period & Midline of Sine and Cosine · 23

ANSWER

$$\frac{2}{3}$$