Task card 1 Amplitude, Period & Midline of Sin...

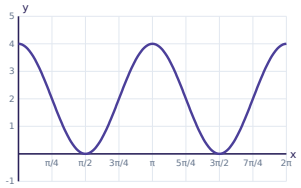
Find the period of y = -sin(6x) + 3 as a multiple of π: period = ___π

Task card 2 Amplitude, Period & Midline of Sin...

Find the minimum value of y = 5sin(6x) + 4.

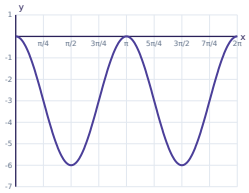
Task card 3 Amplitude, Period & Midline of Sin...

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



Task card 4 Amplitude, Period & Midline of Sin...

Find the equation of the midline of the sinusoid shown.

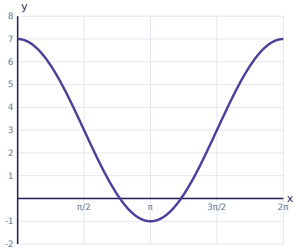


Task card 5 Amplitude, Period & Midline of Sin...

Write an equation y = a cos(bx) + d with a > 0, amplitude 1, period 2π and midline y = -3.

Task card 6 Amplitude, Period & Midline of Sin...

Find the amplitude of the sinusoid shown.



Task card 7 Amplitude, Period & Midline of Sin...

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

Task card 8 Amplitude, Period & Midline of Sin...

Write an equation $y = a\cos(bx) + d$ with $a > 0$, amplitude 1, period π/2 and midline $y = -3$.

Task card 9 Amplitude, Period & Midline of Sin...

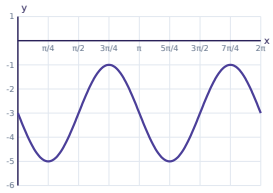
Find the period of $y = -\cos(4x) - 1$ as a multiple of π: period = ___π

Task card 10 Amplitude, Period & Midline of Sin...

Find the minimum value of $y = -2\cos(2x) - 1$.

Task card 11 Amplitude, Period & Midline of Sin...

Find the equation of the midline of the sinusoid shown.

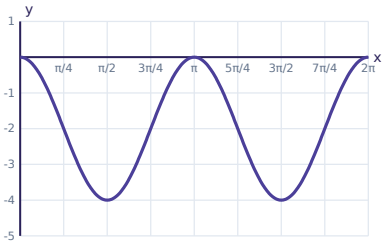


Task card 12 Amplitude, Period & Midline of Sin...

Write an equation $y = a\sin(bx) + d$ with $a > 0$, amplitude 4, period π/3 and midline $y = -3$.

Task card 13 Amplitude, Period & Midline of Sin...

Find the amplitude of the sinusoid shown.



Task card 14 Amplitude, Period & Midline of Sin...

Find the period of y = -sin(6x) + 1 as a multiple of π: period = ___π

Task card 15 Amplitude, Period & Midline of Sin...

Write an equation y = a sin(bx) + d with a > 0, amplitude 5, period π/3 and midline y = -4.

Task card 16 Amplitude, Period & Midline of Sin...

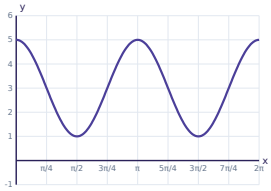
Find the period of y = -4sin(x) + 4 as a multiple of π: period = ___π

Task card 17 Amplitude, Period & Midline of Sin...

Find the minimum value of y = 3sin(2x) + 4.

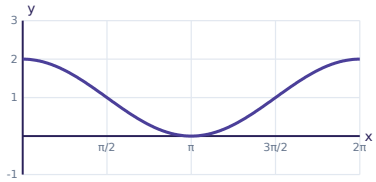
Task card 18 Amplitude, Period & Midline of Sin...

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



Task card 19 Amplitude, Period & Midline of Sin...

Find the equation of the midline of the sinusoid shown.

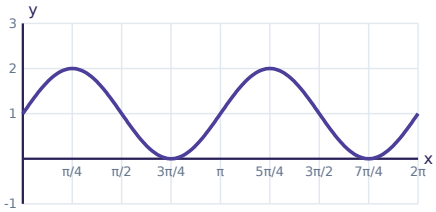


Task card 20 Amplitude, Period & Midline of Sin...

Write an equation y = a cos(bx) + d with a > 0, amplitude 1, period 2π and midline y = -4.

Task card 21 Amplitude, Period & Midline of Sin...

Find the amplitude of the sinusoid shown.



Task card 22 Amplitude, Period & Midline of Sin...

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

Task card 23 Amplitude, Period & Midline of Sin...

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

Task card 24 Amplitude, Period & Midline of Sin...

Find the period of y = 3cos(2x) - 4 as a multiple of π: period = ___π

Amplitude, Period & Midline of Sine and Cosine Task Cards

Recording sheet · Grade 11 · Answer each question. When asked for a multiple of π, type only the number in front of π (for example 2/3).

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Amplitude, Period & Midline of Sine and Cosine Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. $\frac{1}{3}$	**2.** -1	**3.** 1
4. y = -3	**5.** y = cos(x) - 3	**6.** 4
7. $\frac{2}{3}$	**8.** y = cos(4x) - 3	**9.** $\frac{1}{2}$
10. -3	**11.** y = -3	**12.** y = 4sin(6x) - 3
13. 2	**14.** $\frac{1}{3}$	**15.** y = 5sin(6x) - 4
16. 2	**17.** 1	**18.** 1
19. y = 1	**20.** y = cos(x) - 4	**21.** 1
22. 2	**23.** y = 4cos(2x) - 4	**24.** 1