SASKATCHEWAN FOUNDATIONS OF MATHEMATICS 30 · UNIT F · 25 QUESTIONS

Sinusoidal Functions — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The function y = sin 2x has period, in degrees,**

- A 180
- B 360
- C 90
- D 720

Understand It with Pulse | Flag a mistake

2 **The function y = 10sin x has amplitude**

- A 11
- B 10
- C 20
- D 1

Understand It with Pulse | Flag a mistake

3 **For y = 3sin x, the value of y when x = 90 degrees is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The function y = 2sin x has amplitude**

A 3

B 4

C 2

D 1

Understand It with Pulse | Flag a mistake

5 **A sinusoidal function has amplitude 3 and midline y = 0 . Its maximum value is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 The function $y = 5\sin x$ has amplitude

- A 6
- B 10
- C 1
- D 5

Understand It with Pulse | Flag a mistake

7 The function $y = \sin 3x$ has period, in degrees,

- A 120
- B 360
- C 90
- D 720

Understand It with Pulse | Flag a mistake

8 The function y = 3 sin x + 4 has midline y equals

- A 3
- B 4
- C -4
- D 0

Understand It with Pulse | Flag a mistake

9 For y = 2sin x, the value of y when x = 90 degrees is

ANSWER _____

Understand It with Pulse | Flag a mistake

10 A sinusoidal function has amplitude 2 and midline y = -1 . Its maximum value is

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A sinusoidal function has amplitude 3 and midline y = 1 . Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **A sinusoidal function has amplitude 3 and midline y = 0 . Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

13 **The function y = 3sin x has amplitude**

A 4

B 6

C 3

D 1

Understand It with Pulse | Flag a mistake

14 The function y = 3 sin x + (-1) has midline y equals

- A 3
- B 1
- C 0
- D -1

Understand It with Pulse | Flag a mistake

15 A sinusoidal function has amplitude 2 and midline y = -2 . Its minimum value is

ANSWER _____

Understand It with Pulse | Flag a mistake

16 A sinusoidal function has amplitude 3 and midline y = -2 . Its minimum value is

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A sinusoidal function has amplitude 3 and midline y = 2 . Its maximum value is**

ANSWER

Understand It with Pulse | Flag a mistake

18 **A sinusoidal function has amplitude 2 and midline y = 1 . Its maximum value is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **A sinusoidal function has amplitude 3 and midline y = 2 . Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **A sinusoidal function has amplitude 5 and midline y = 1 . Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

21 **A sinusoidal function has amplitude 5 and midline y = 0 . Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A sinusoidal function has amplitude 4 and midline y = 1 . Its maximum value is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **A sinusoidal function has amplitude 4 and midline y = -2 . Its maximum value is**

ANSWER

Understand It with Pulse | Flag a mistake

24 **A sinusoidal function has amplitude 3 and midline y = -2 . Its maximum value is**

ANSWER

Understand It with Pulse | Flag a mistake

25 **A sinusoidal function has amplitude 5 and midline $y = 2$. Its minimum value is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**10.**	1	**19.**	-1
2.	B	**11.**	-2	**20.**	-4
3.	3	**12.**	-3	**21.**	-5
4.	C	**13.**	C	**22.**	5
5.	3	**14.**	D	**23.**	2
6.	D	**15.**	-4	**24.**	1
7.	A	**16.**	-5	**25.**	-3
8.	B	**17.**	5		
9.	2	**18.**	3		

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