ONTARIO FUNCTIONS, GRADE 11, UNIVERSITY PREPARATION (MCR3U) · UNIT C · 10 QUESTIONS

Trigonometric 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 phase shift, in degrees, of y = sin(x - 45°) is**

- A 75
- B 30
- C 0
- D 45

Understand It with Pulse | Flag a mistake

2 **The reference angle for 330° in degrees, is**

- A 60
- B 40
- C 90
- D 30

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3 The solutions of $\sin x = \sqrt{2}/2$ for $0° \leq x < 360°$ are x equal to

- A 30, 210
- B 45, 135
- C 150, 330
- D 0, 180

Understand It with Pulse | Flag a mistake

4 A sine model for tide height is $h(t) = 7 \sin t + 15$ The maximum tide height is

- A 15
- B 7
- C 24
- D 22

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5 The solutions of $\sin x = \frac{1}{2}$ for $0° \leq x < 360°$ are x equal to

- A 30, 210
- B 150, 330
- C 30, 150
- D 0, 180

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6 The phase shift, in degrees, of $y = \sin(x - 60°)$ is

- A 60
- B 90
- C 45
- D 0

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7 The reference angle for 150° in degrees, is

- A 60
- B 41
- C 90
- D 30

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8 The solutions of sin x = $\sqrt{3}/2$ for 0° ≤ x < 360° are x equal to

- A 30, 210
- B 150, 330
- C 60, 120
- D 0, 180

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9 **The phase shift, in degrees, of y = sin(x - 90°) is**

A 120

B 75

C 0

D 90

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10 **The reference angle for 240° in degrees, is**

A 90

B 70

C 71

D 60

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ANSWER KEY

1. D
2. D
3. B
4. D
5. C
6. A
7. D
8. C
9. D
10. D

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