NEWFOUNDLAND AND LABRADOR MATHEMATICS 2200 · UNIT A

Trigonometry — Practice Test

Newfoundland and Labrador Mathematics 2200 • 10 questions

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 **Think about the property. The sine of an obtuse angle in standard position is**

- A negative
- B positive
- C zero for every obtuse angle
- D undefined

Understand It with Pulse | Flag a mistake

2 **Recall the property. In which quadrant is the cosine negative and the sine positive?**

A Quadrant I

B Quadrant III

C Quadrant II

D Quadrant IV

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3 **From the top of a cliff, the angle of depression to a boat 80 m from the base of the cliff is 60°. The height of the cliff, to the nearest metre, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Consider the property in general . The equation sin x = 0.5 has , between 0 degrees and 360 degrees , how many solutions ?**

- A 2
- B 1
- C 0
- D 4

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5 **In a right triangle, an angle measures 30° and the hypotenuse is 20. The side opposite the angle, to one decimal place, is about**

- A 11.30
- B 10
- C 8.70
- D 12.70

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6 **In a triangle, angle A measures 50°, side a is 12, and angle B measures 70°. Side b, to one decimal place, is about**

- A 15.80
- B 13.60
- C 14.7
- D 17

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7 **Two sides of a triangle measure 7 and 11 with included angle 120°. The third side, to one decimal place, is about**

- A 16.90
- B 14.50
- C 15.7
- D 18.10

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8 **The exact value, to three decimal places, of sin 30° is**

- **A** 0.5
- **B** 0.866
- **C** 1
- **D** 0

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9 **From a point 17 m from the base of a tower, the top of the 10 m tower is sighted. The angle of elevation, to the nearest degree, is**

ANSWER _____

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10 **Review the statement. Which statement about the sine law is true for any triangle?**

A It applies only to right triangles

B It uses only the longest side

C It relates each side to the sine of its opposite angle

D It gives the area directly

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	B	**9.**	30
2.	C	**6.**	C	**10.**	C
3.	139	**7.**	C		
4.	A	**8.**	A		

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