BRITISH COLUMBIA PRE-CALCULUS 11 (MPREC11) · UNIT C · 10 QUESTIONS

Trigonometry — 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 exact value of tan 315° is**

- **A** 1
- **B** -1
- **C** $\sqrt{3}$
- **D** 0

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2 In the right triangle shown, AB = 8, AC = 6, and BC = 10. The value of tan B is

- **A** $\frac{4}{3}$
- **B** $\frac{3}{4}$
- **C** $\frac{6}{10}$
- **D** $\frac{8}{10}$

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3 In a triangle, A = 60°, a = 12, and B = 30°. By the sine law, the side b is

- **A** $4\sqrt{3}$
- **B** $6\sqrt{3}$
- **C** $12\sqrt{3}$
- **D** 24

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4 In a triangle, two sides are 6 and 8 with 90° between them. By the cosine law, the third side is

- **A** 14
- **B** 10
- **C** 100
- **D** 2

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5 A triangle has sides a = 4, b = 5, and c = 3. The value of cos C is

- **A** $\frac{3}{5}$
- **B** $-\frac{4}{5}$
- **C** $\frac{4}{5}$
- **D** $\frac{5}{4}$

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

- A 30, 150
- B 210, 330
- C 150, 210
- D 210, 300

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7 The solutions of $\cos x = 0$ for $0° \leq x < 360°$ are

- A 0, 180
- B 90, 270
- C 90, 180
- D 0, 90

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8 If $\cos\theta = \frac{5}{13}$ and θ is in quadrant I, then $\sin\theta$ is

A $\frac{12}{13}$

B $-\frac{12}{13}$

C $\frac{5}{12}$

D $\frac{13}{12}$

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9 The value of sin 90° is ____.

ANSWER _____

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10 The value of tan 180° is ____.

ANSWER _____

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ANSWER KEY

1. B
2. B
3. A
4. B
5. C
6. B
7. B
8. A
9. 1
10. 0

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