ALBERTA MATH 30-1 · 5 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 $\tan(\frac{5\pi}{4})$ is

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

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2 **Wooden extension ladder leaning at a steep angle against a plain white house wall, ladder large in frame, clear blue sky. The measure of an angle of 150° , in radians, is**



A $\frac{2\pi}{3}$

B $\frac{3\pi}{4}$

C $\frac{5\pi}{6}$

D $\frac{7\pi}{6}$

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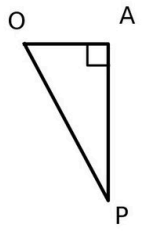
3 **The diagram shows a point P on the terminal arm of an angle θ in standard position. The horizontal side has length 8 and the vertical side has length 15. The exact value of cosθ is**



Question 3

The diagram shows a point P on the terminal arm of an angle θ in standard position. The horizontal side has length 8 and the vertical side has length 15. The exact value of $\cos\theta$ is

A) $-\frac{15}{17}$

B) $-\frac{8}{17}$

C) $\frac{15}{17}$

D) $\frac{8}{17}$

A $-\frac{15}{17}$

B $-\frac{8}{17}$

C $\frac{15}{17}$

D $\frac{8}{17}$

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4 The period of the function $y = 5\sin(\frac{\pi}{4}x)$ is

ANSWER _____

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5 The graph below shows $y = \sin x$ and a dashed line. The solutions to the equation $\sin x = -\frac{1}{2}$ on the interval $0 \le x < 2\pi$ are

A $x = \frac{\pi}{6}, \frac{5\pi}{6}$

B $x = \frac{7\pi}{6}, \frac{11\pi}{6}$

C $x = \frac{5\pi}{6}, \frac{7\pi}{6}$

D $x = \frac{4\pi}{3}, \frac{5\pi}{3}$

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ANSWER KEY

1. B
2. C
3. D
4. 8
5. B

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