

Chapter 5 Test Retake Worksheet

In order to retake the Chapter 5 Test you must complete the following:

1. Make corrections for each question you missed on the test. Put these on a separate sheet of paper, showing all work. Attach the corrections to the front of your original test. Make sure your name is on the corrections, as well as the title ***Chapter 5 Test Corrections.***
 2. Complete this Chapter 5 Test Retake Worksheet.

Trigonometric Identities

Reciprocal Identities:

2. 4. 6.

Quotient Identities:

Pythagorean Identities:

9. **12.** **15.**

10. 13. 16.

Chapter 5 Test Retake Worksheet

Strategies for Simplifying Trig Expressions

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

Examples:

1. Simplify: $\frac{\sin^2 u - \cos^{2u}}{\sin u \cos u}$

2. Simplify: $\tan x + \cot x$

3. Simplify: $\sec x - \cos x$

4. Find all solutions: $3\cot x - 3 = 0$

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Matching: Answers can be used more than once.

	1. $\frac{1}{\cot^2 x + 1}$	A. $\tan x$
	2. $\frac{\sin x \csc x}{\cot x}$	B. 1
	3. $\sec^2 x \cot x - \cot x$	C. $\sin^2 x$
	4. $\frac{\csc x}{\sin x} - \frac{\cot x}{\tan x}$	
	5. $\frac{\sin x}{\cos x \tan x}$	

Find all solutions:

$$6. \quad 2\cos x - \sqrt{3} = 0$$

$$7. \quad \sec^2 x = \sec x + 2$$

Find solutions in the interval $[0, 2\pi)$:

$$8. \quad 2\cos^2 x - 1 = 0$$

$$9. \quad 2\sin^3 x + \sin^2 x = 0$$

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Find the exact value of the trigonometric function given that $\sin u = \frac{12}{13}$ and $\cos v = -\frac{4}{5}$ and u and v are in Quadrant II.

10) $\sin(u + v)$

11) $\tan(u - v)$

12) $\sin 2u$

13) $\cos 2v$

14) $\sin\left(\frac{u}{2}\right)$

15) $\cos\left(\frac{u}{2}\right)$

16) Find the exact value of $\cos 75^\circ$
using a sum formula.

17) Find the exact value of $\sin 75^\circ$
using a half angle formula.

18) Simplify: $\sin(\pi - x)$