

**PreCalculus**

Name \_\_\_\_\_

Period \_\_\_\_\_

**Ch. 4 Review (4.1-4.7)****\* Show work on the separate sheet of paper.**

[1-2] State the amplitude, period, frequency, phase shift, vertical shift, and midline of each function. Then graph two periods of the function. Be sure to label the scales on the axes of the graph.

1.  $f(x) = 4 \cos \frac{x}{2} - 5$

2.  $g(x) = -\sin\left(x + \frac{\pi}{2}\right)$

[3-6] State the period and vertical asymptotes. Then sketch the graph of each function.

3.  $h(x) = \tan\left(x + \frac{\pi}{4}\right)$

4.  $k(x) = \frac{1}{2} \sec(2x)$

5.  $y = 2 \csc\left(\frac{x}{3}\right)$

6.  $j(x) = -2 \cot\left(2x + \frac{\pi}{3}\right)$

[7-12] Find the exact values, if they exist.

7.  $\arccos\left(-\frac{1}{2}\right)$

8.  $\tan^{-1}(-1)$

9.  $\sin^{-1} \pi$

10.  $\tan^{-1}\left(\tan \frac{3\pi}{2}\right)$

11.  $\tan(\arcsin \frac{-1}{2})$

12.  $\sin^{-1}(\cos \frac{\pi}{6})$

[13-16] Solve  $\triangle ABC$ .

13.  $A=30^\circ$ ,  $B=100^\circ$ ,  $a=15$

14.  $A=38^\circ$ ,  $C=63^\circ$ ,  $b=15$

15.  $a=7$ ,  $b=10$ ,  $c=5$

16.  $C=40^\circ$ ,  $a=30$ ,  $b=30$

[17-18] Find the area of  $\triangle ABC$ .

17.  $A=110^\circ$ ,  $b=21$ ,  $c=18$

18.  $a=25$ ,  $b=23$ ,  $c=14$

19. Find two triangles for which  $A=49^\circ$ ,  $a=12$ ,  $b=15$ .

[20-22] Find the Exact Values of the five remaining trigonometric functions of  $\theta$ .

20.  $\tan \theta = 2$ , where  $\sin \theta > 0$  and  $\cos \theta > 0$

21.  $\cos \theta = -1/2$ , where  $\sin \theta > 0$

22.  $\sec \theta = \sqrt{3}$ , where  $\sin \theta < 0$  and  $\cos \theta > 0$

[23-26] angle of elevation / depression problems

23. A building is 50 feet high. At a distance away from the building, an observer notices that the angle of elevation to the top of the building is  $41^\circ$ . How far is the observer from the base of the building?

24. An airplane is flying at a height of 2 miles above the ground. The distance along the ground from the airplane to the airport is 5 miles. What is the angle of depression from the airplane to the airport?

# Precalc Ch4 Test

**Karl Smith**



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Precalculus Cynthia Y. Young, 2023-05-16 Cynthia Young's Precalculus 4th edition helps students take the guesswork out of studying by offering them an easy to read and clear roadmap that tells them what to do how to do it and whether they did it right With this revision the author focuses on the most difficult topics in precalculus bringing clarity to challenging learning objectives

**Precalculus** Murray Gechtman, 1992

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*Precalculus Mathematics* Max A. Sobel, 1991

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