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Precalculus Chapter 4 Trigonometric Functions Test Answers

Try It 4.1 Linear

Functions 1. $m = 4 -$

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Functions, Coterminal

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Answers
Angles. Radian. 30° . 90° .
Two angles that are both drawn in the standard position and bo.... The measure of an angle when its radius equals its arc length. Degree measure of $\pi/6$. Degree measure of $\pi/2$.

trigonometric functions chapter 4 Flashcards and Study ...

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Answers

Functions 53. (a) $s=r'' =$

$$(4)(4\pi) = 16\pi \approx 50.265$$

in., or $\pi \approx 4.189$ ft (b)

$$r'' = 2\pi \approx 6.283 \text{ ft } 54.$$

$$s=r'' = (52) = \pi \approx 0.908 \text{ ft}$$

$$55. (a) = 120 = 4\pi$$

$$\text{rad/sec (b) } v = = (7$$

$$\text{cm}) = 28\pi \text{ cm/sec (c)}$$

$$= v/r = \div (4 \text{ cm}) = 7\pi$$

$$\text{rad/sec } 56. (a) = 135$$

$$= 4.5\pi \text{ rad/sec (b) } v =$$

$$= (1.2 \text{ m}) = 5.4\pi \text{ m/sec}$$

(c) The radius to this

halfway point is

$$r^* = r = 0.6 \text{ m,}$$

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4 360° π 180° π 262

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Functions Conversions

Between Degrees and

Radians 1. To convert

degrees to radians,

multiply degrees by 2.

To convert radians to

degrees, multiply

radians by To apply

these two conversion

rules, use the basic

relationship (See

Figure 4.14.) rad 180 .

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180 rad. rad 180 .

Answers
Example 3 Converting
from Degrees to
Radians a.

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Review Answers

Section 4.4 Examples -

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Trigonometric Functions of Any Angle

(1) Determine the exact values of the six trigonometric functions of the angle θ .

a) $\sin \theta = \frac{3}{5}$, θ lies in Quadrant II

(2) Find the reference angle θ' for the special angle θ .

$\theta = 120^\circ$

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Trigonometry and the
Unit Circle Section 4.1

Angles and Angle

Measure Section 4.1

Page 175 Question 1 a)

-4π is a clockwise

rotation b) 750° is a

counterclockwise

rotation c) -38.7° is a

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rotation Section 4.1

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**Trigonometry and
the Unit Circle**

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Trigonometric Functions

4.8 Solving Problems with

Trigonometry CHAPTER

4 When the motion of

an object causes air molecules to vibrate, we hear a sound. We

measure sound

according to its pitch and loudness, which

are attributes

associated with the frequency and amplitude

of sound waves. As we

shall see, it is the

branch of mathematics

called trigonometry

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Trigonometric Functions

that enables

5144 Demana **Ch04pp349-442**

We define the trigonometric ratios of any angle by placing the angle in standard position and choosing a point on the terminal side, with $r = \sqrt{x^2 + y^2}$. $r = \sqrt{x^2 + y^2}$. The Trigonometric Ratios. If θ is an angle in standard position, and (x, y) is a point on its terminal side,

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with $r = \sqrt{x^2 + y^2}$, $r = x$
2 + y 2, then.

Answers

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Functions. 32. $s = (5$

ft)(18°) ft 33. $\theta = \text{rad}$

and $\theta = 36$ 34. $\theta = 4.5$

rad and 35. ... The

answer is C. 60. If the

perimeter is 4 times

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the radius, the arc is

two radii long, which

implies an angle of 2

radians. The answer is
A. 61.

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Trigonometry Let t be a

real number and let $(x,$

$y)$ be the point on the

unit circle

corresponding to t .

Complete the following

definitions of the

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trigonometric

functions: $\sin t = \frac{a}{c}$

$\cos t = \frac{a}{c}$ $\tan t = \frac{a}{b}$

$\cot t = \frac{b}{a}$

$\sec t = \frac{c}{a}$

$\csc t = \frac{c}{b}$

$\frac{a}{b}$

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Trigonometric Functions Answers

Functions of Any Angle

The definitions of the six trigonometric functions may be extended to include any angle as shown below. Let θ be any angle in standard position and point $P(x, y)$ be a point on the terminal side of θ .

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Sinusoidal Function

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At multiples of 2π . 4. At

values of $(2n+1)\pi$ for
all integer values of n .

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ALGEBRA 2 and TRIGONOMETRY

Try It 13.1 Sequences
and Their Notations 1 .

The first five terms are
 $\{ 1 , 6 , 11 , 16 , 21 \}$.
 $\{ 1 , 6 , 11 , 16 , 21 \}$

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We have listed top
important formulas for
Trigonometric
Functions for class 11
Chapter 3, which helps

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support to solve questions related to chapter Trigonometric Functions. I would like to say that after remembering the Trigonometric Functions formulas you can start the questions and answers the solution of the Trigonometric Functions chapter.

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cd98f00b204e9800998

ecf8427e.

Answers