

Algebra 2 Honors

Intro to Trigonometry



Free Response: Calculator NOT ALLOWED on this question.

Given $y = -3 \sin\left(\frac{2}{3}\theta\right)$

A. State the amplitude and period of the function.

B. State the five key points in the first cycle. Identify whether they are intercepts, maximums, or minimums.

Assessments

11

Completely Editable

Unit II Mid-Unit Review

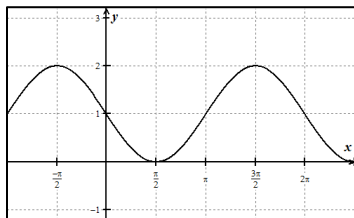
Intro to Trigonometry

Name: _____

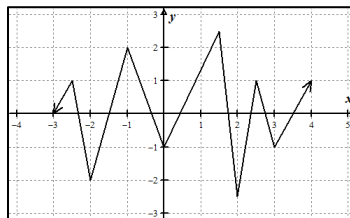
Date: _____ Period: _____

Determine whether each function *is* or *is not* periodic. If it is, find the period and amplitude.

1.



2.



Find the measure of an angle between 0° and 360° coterminal with the given angle.

3. -260°

4. 785°

5. 535°

Sketch the angle in standard position.

6. $\frac{3\pi}{4}$

7. -120°

8. $\frac{7\pi}{2}$

Determine two coterminal angles (one positive and one negative) for the angle.

9. 38°

10. -130°

11. 450°

Convert radian measure to degree measure.

12. $\frac{\pi}{9}$

13. $\frac{5\pi}{12}$

14. $\frac{7\pi}{5}$

Convert degree measure to radian measure.

15. -235°

16. 165°

17. 36°

Find the exact coordinates of the point where the terminal side of the given angle intersects the unit circle. Then find the decimal equivalents. Round your answers to the nearest hundredth.

18. -90°

19. 45°

20. 330°

Algebra 2 Quiz – Form A

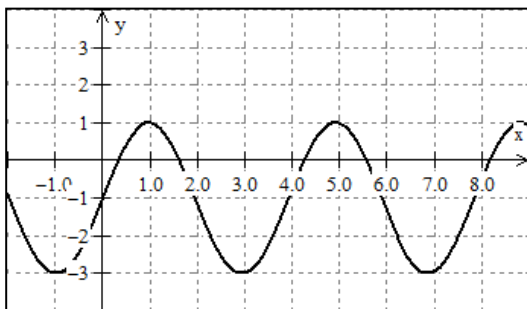
Intro to Trigonometry

Name: _____

Date: _____ Period: _____

Show all work for full credit. TOTAL POINTS: _____

1. In the graph below, find the period, maximum, minimum, and amplitude.



2. Name two coterminal angles to 230° , one positive and one negative.

3. Find the exact value of $\cos 45^\circ$

4. Find the exact value for $\sin 60^\circ$

5. Convert $\frac{5\pi}{9}$ to degrees

6. Convert 108° to radians

Use a calculator to find the following. Round your answer to nearest hundredth.

7. $\cos(-320^\circ)$

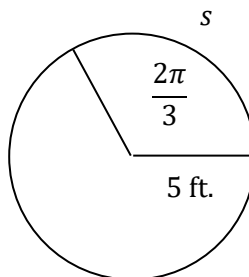
8. $\sin(200^\circ)$

Find the exact value of each trigonometric function.

9. $\cos\left(\frac{7\pi}{6}\right)$

10. $\sin(3\pi)$

11. Find the length of the intercepted arc. Round your answer to the nearest hundredth.



ANSWERS

1. period

1. maximum

1. minimum

1. amplitude

2. positive

2. negative

3.

4.

5.

6.

7.

8.

9.

10.

11.

B.

Unit II Test – Form A

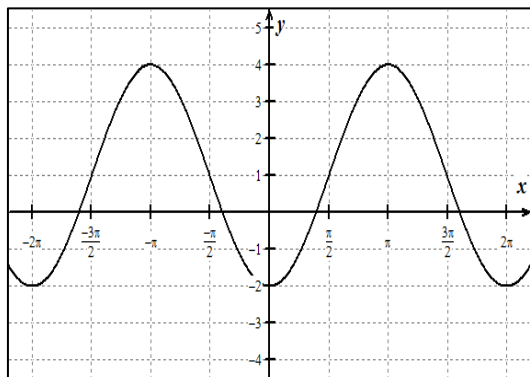
Intro to Trigonometry

Name _____

Date: _____ Period: _____

TOTAL POINTS: _____.

1. Find the period, maximum, minimum and amplitude.



2. Name two coterminal angles to 192° , one positive and one negative.

Questions 3-5: Find the exact value for each angle.

3. $\cos 210^\circ$

4. $\sin \frac{\pi}{6}$

5. $\tan \frac{3\pi}{4}$

6. Convert $\frac{7\pi}{6}$ to degrees

7. Convert 140° to radians

ANSWERS:

1. period

1. maximum

1. minimum

1. amplitude

2. positive

2. negative

3.

4.

5.

6.

7.

Calculator PERMITTED on this test!

1. Determine the quadrant in which the angle $\frac{7\pi}{5}$ lies.

[A] II

[B] III

[C] IV

[D] terminal side lies on one of the axes

2. Find the angle that is coterminal to $\theta = -\frac{5\pi}{6}$

[A] $\frac{\pi}{6}$

[B] $\frac{5\pi}{6}$

[C] $\frac{7\pi}{6}$

[D] $\frac{11\pi}{6}$

3. Convert to degree measure: $\theta = \frac{3\pi}{5}$

[A] 0.0329°

[B] 54°

[C] 108°

[D] 216°

4. Convert to radian measure: 25°

[A] $\frac{5\pi}{36}$

[B] $\frac{5\pi}{18}$

[C] $\frac{36}{5\pi}$

[D] $\frac{4500}{\pi}$