Algebra 2H

Trigonometry Review

**DO ALL WORK NEATLY ON A SEPARATE SHEET OF PAPER**

1. If right triangle  had legs  and  with hypotenuse , what is the measure of angle ?

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1. A ladder leans against a building forming an angle of 54° with the ground. The base of the ladder is 7 feet from the building. Determine the length of the ladder.

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1. A tree casts a shadow of 27 meters when the angle of elevation of the sun is 26°. Find the height of the tree to the nearest meter.

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1. Which angle is not coterminal with 421°?

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1. On a Ferris wheel, you travel through a central angle of  before stopping. If the radius of the Ferris wheel is 80 feet, how many feet have you traveled?.

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1. What are the values of  and  for the acute angle  in standard position if  ?

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1.  is an angle in standard position with point  on the terminal side. What is the value of ?
2. Find one positive angle and one negative angle that are coterminal with an angle of −328° in standard position.
3. Find the degree of the angle in standard position formed by rotating the terminal side by  of a circle.
4. Evaluate  without using a calculator.
5. Graph  without using a calculator.
6. Graph  without using a calculator.