Solutions to practice exam 2 for Math 1060-90 Online Trigonometry

Formulas and identities on the front of exam:



Formulas and identities you are expected to know:

Reciprocal identities:

ratius

Pythagorean Identities



Sec x = 1 cus

Law of sines

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3. Determine all solutions for this equation on the interval $[0,2\pi)$



For all graphs on this page x is on the interval and y is on the interval [-4,4]





7. Circle all the expressions which have a value of 1:

You may **use a calculator on these.** Round angles to 1 decimal place and sides to 2.. Draw a sketch, set up the math and solve for the variable. Because you have a calculator, you must be certain to show the math. Show the set-up and steps. Don't forget your units. (feet, degrees, etc.)

11. If a 30 foot wire from the roof of a building to the ground makes a 25° angle with the ground, how high is the building?

 $\int \sqrt{\sin 2s^{\circ}} = \frac{h}{30}$ $\sqrt{h} = 30 \sin 2s^{\circ} \approx 12.68 \text{ ft}$ 1_{PX}

12. What is the measure of the largest angle of a triangle with sides 8, 9 and 10. What is the area of the triangle?

$$A = \frac{1}{2} absinc \qquad -\frac{45}{100} = \frac{10^2}{100} = \frac{2}{100} + \frac{10^2}{100} = \frac{100}{100} + \frac{100}{100} = \frac{100}{100} + \frac{100}{$$

13. Two surveyors stand 30 meters apart on a straight path. They each measure the angle from the path to a straight line between them and a fixed tree. For one the angle is 72 degrees and for the other the angle is 53 degrees. How far away from the tree is each surveyor?

