Name: _____ Date: 5/15/15
Mathematics Period 3 Ms. Wilson

Using Trig Ratios to Solve Triangles
Classwork

1.) Determine the value of sin 76° to five decimal places.

2.) Determine the value of tan 26° to five decimal places.

3.) Determine the value of cos 55° to five decimal places.

4.) Determine to the nearest whole degree the measure of the angel whose sine equals 0.94552.

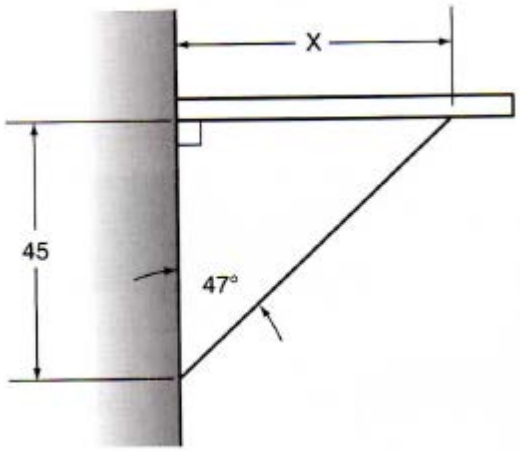
5.) Determine to the nearest whole degree the measure of the angle whose tangent equals 1.4281.

6.) Determine to the nearest whole degree the measure of the angle whose cosine equals 0.97029.

7.) What is the length in inches of the base of a right triangle with a 35° base angle and a 12-inch altitude to that base? Round your answer to the nearest hundredth. (Hint: DRAW A PICTURE!)

8.) What is the length in inches of the hypotenuse of a right triangle that has a 60° base angle and an 11-inch base?

9.) Calculate dimension X of this shelf brace to the nearest tenth.



10.) Calculate distance AC between the center of hole A and to the center of hole C. Calculate distance BC between the center of hole B to the center of hole C. Express each answer to the nearest thousandth.