

Precalc Warm Up – 10/27/10

Name: _____

Period: _____

1) Sketch a 45 degree angle.

2) Sketch a 180 degree angle.

3) Sketch a 210 degree angle.

4) Sketch 30, 60, 90 right triangle.

Precalc –Trigonometry Intro – 10/27/10

Name:_____

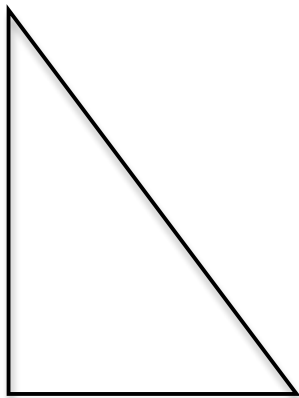
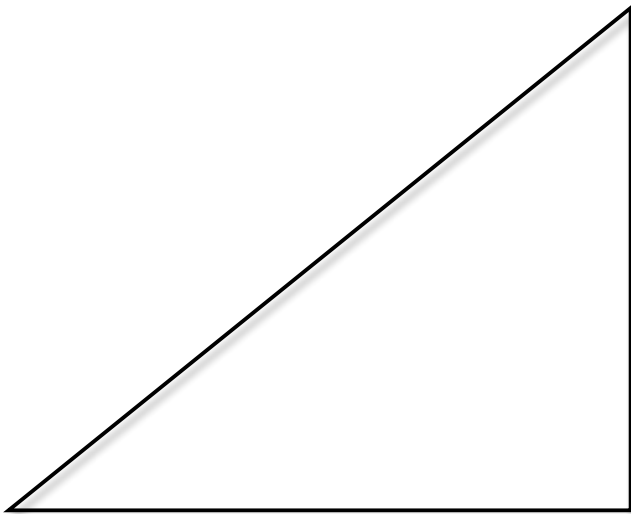
Period:_____

Trigonometry Objectives

- 1) Students will know how to label the sides of a right triangle.
- 2) Students will be able to find sine, cosine and tangent given the side lengths of a right triangle.
- 3) Students will be able to find sine, cosine and tangent given the measure of an angle
- 4) Students will know the values of sine, cosine and tangent for 30, 45, 60, 90 without a calculator
- 5) Be able to solve triangle problems (find the length of a side or the measure of an angle) using trig functions and inverse trig functions.

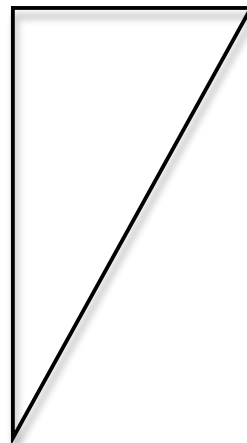
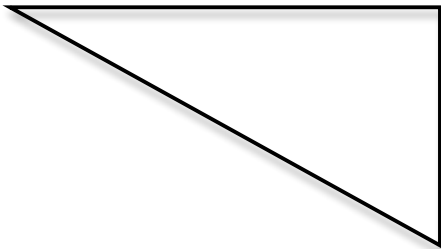
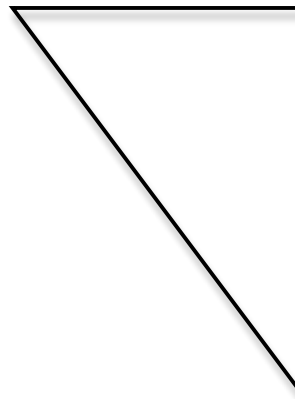
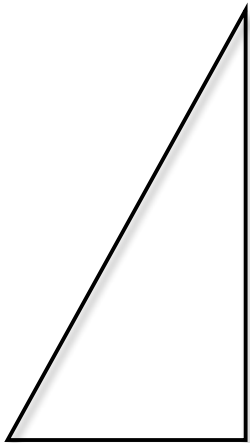
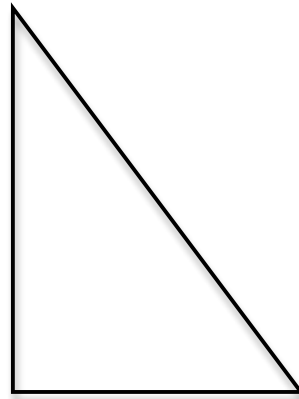
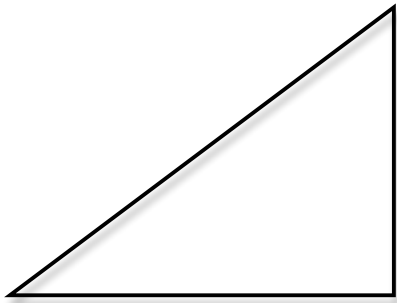
Objective 1 – Students will know how to label the sides of a right triangle.

Notes



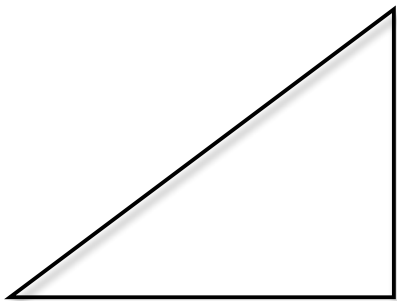
Problems

Label opposite side, adjacent side and hypotenuse of the following triangles.



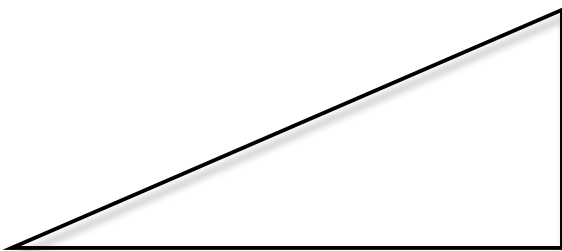
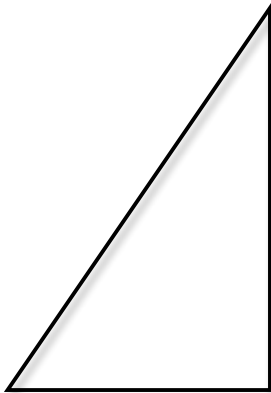
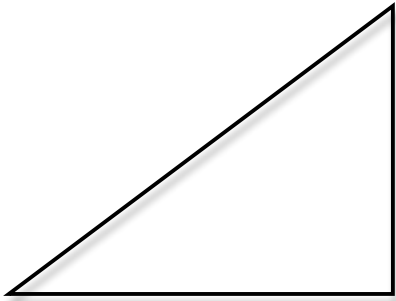
Objective 2 – Students will be able to find sine, cosine, and tangent given the side lengths of a right triangle.

Notes



Problems

Find sine, cosine and tangent for the following triangles.



Objective 3 – Students will be able to find sine, cosine and tangent given the measure of an angle

Problems

1) $\sin 45^\circ =$

2) $\cos 45^\circ =$

3) $\tan 45^\circ =$

4) $\sin 80^\circ =$

5) $\cos 80^\circ =$

6) $\tan 80^\circ =$

7) $\cos 23^\circ =$

8) $\sin 53^\circ =$

9) $\sin 10^\circ =$

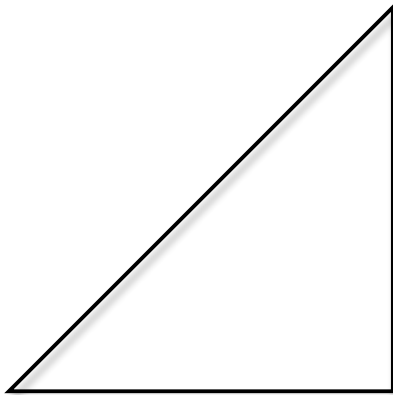
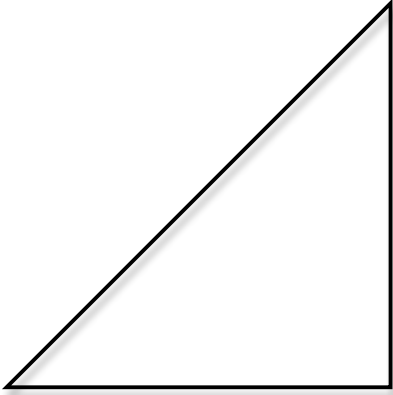
10) $\tan 10^\circ =$

Objective 4 – Students will know sine, cosine and tangent of 30, 45 and 60 without a calculator

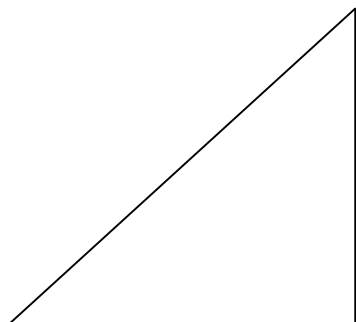
Notes

Objective 5 – Be able to solve triangle problems (find the length of a side or the measure of an angle) using trig functions and inverse trig functions.

Notes



1) For the following right triangle, find the lengths of the missing sides.



2) For the following right triangle, find the value of θ .

