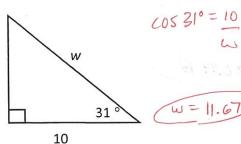
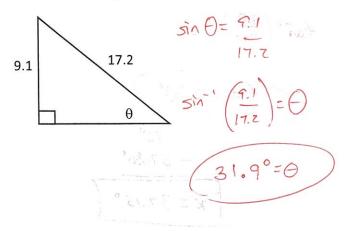
## 4.1 (day 1)

1) Solve for the missing side:

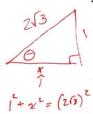


3) Solve for  $\theta$ . Round to the nearest tenth.

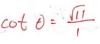


2) Given the cosecant of  $\theta$  in a right triangle is

 $2\sqrt{3}$ , find the exact other 5 trig functions.

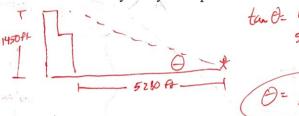


sec 0 = 2/3.



 $\frac{5}{2} \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3}$   $\frac{1}{2} \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \frac{1}{3}$ 

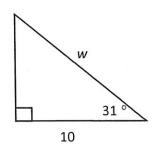
4) Willis Tower stands approximately 1,450 ft. If you're standing a mile east from it on the shores of Lake Michigan, what is the angle created from your eye to top?



Name:

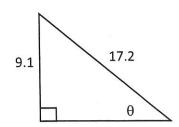
## 4.1 (day 1)

1) Solve for the missing side:



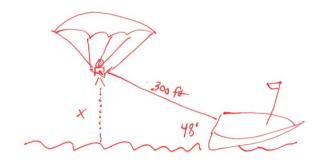
2) Given the cosecant of  $\theta$  in a right triangle is  $2\sqrt{3}$ , find the exact other 5 trig functions.

3) Solve for  $\theta$ . Round to the nearest tenth.



4) Willis Tower stands approximately 1,450 ft. If you're standing a mile east from it on the shores of Lake Michigan, what is the angle

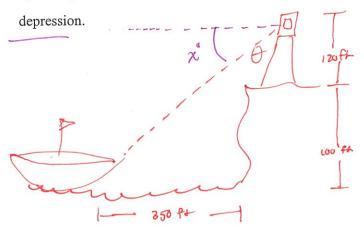
5) A parasailer is attached to a boat with a rope 300 ft. long. The angle of elevation from the boat to the parasailer is 48°. Estimate the parasailer's height above the boat.

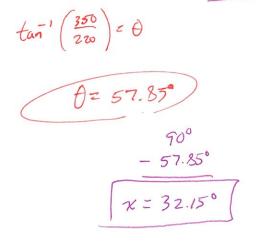


$$\sin 48^\circ = \frac{x}{300}$$

$$x = 222.94 \text{ ft}$$

6) In a light house, on a 100 ft. cliff stand 120 ft. high. A boat is sited 350 ft. from shore. Determine the angle of





4.1 (day 2)

5) A parasailer is attached to a boat with a rope 300 ft. long. The angle of elevation from the boat to the parasailer is 48°. Estimate the parasailer's height above the boat.

6) In a light house, on a 100 ft. cliff stand 120 ft. high. A boat is sited 350 ft. from shore. Determine the angle of depression.