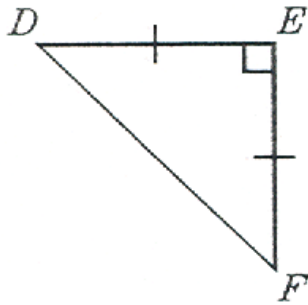
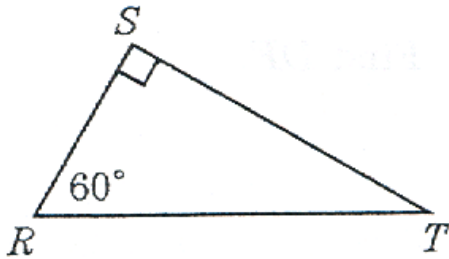


### Quiz I.I - I.3 Review

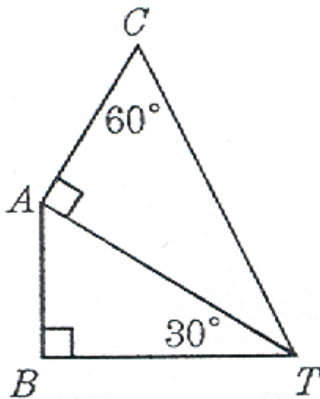
1. If  $DF = 10$ , find the length of  $EF$ .



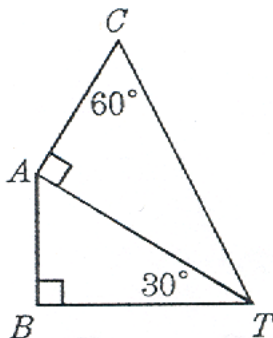
2. If  $ST = 4$ , find the lengths of  $SR$  and  $RT$ .



3. If  $BT = 2\sqrt{3}$ , find the length of  $CT$ .



4. If  $CT = 12$ , find the length of  $AB$ .



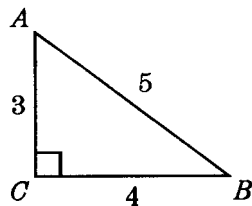
5. A square has a diagonal of length  $10\sqrt{3}$ . What is the perimeter of the square?

For 6 – 7, use the triangle below.

6. What ratio is equal to  $5/3$ ?

a.  $\sin B$       b.  $\csc B$       c.  $\cos A$       d.  $\sec A$

7. Find  $\cot \angle A$ .



8. If  $\cos 73^\circ = \sin \theta$ , find  $\theta$ .

9. From a point 120 feet from the base of a church, the angles of elevation of the top of the building and the top of a cross on the building are  $38^\circ$  and  $43^\circ$  respectively. Find the height to the top of the cross.

10. A campsite is 12.88 miles from a point directly below Mt. Adams. If the angle of elevation is  $15.5^\circ$  from the camp to the top of the mountain, how high is the mountain?

11. At a point 60.7 feet from the base of a building, the angle of elevation from that point to the top is  $64.75^\circ$ . How tall is the building?

12. Tom wished to find the width of a river. He observed a tree directly across the river on the opposite bank. The angle of elevation to the top of the tree was  $32^\circ$ . Then Tom moved directly back from the bank 50 meters and found that the angle of elevation to the top of the tree was  $21^\circ$ . What is the width of the river?

**Rewatch your videos, look through I.1, I.2, and I.3 worksheets and notes! Good Luck!!**