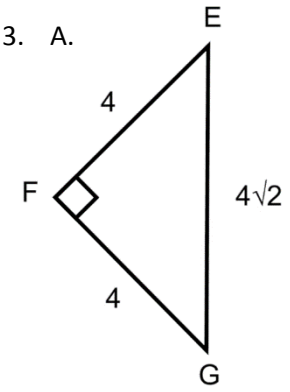
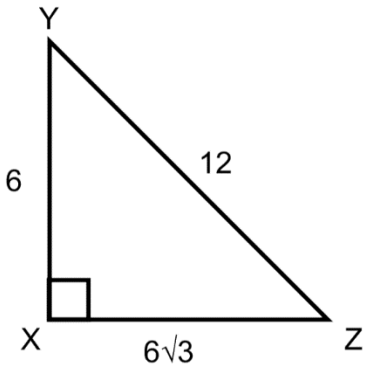
Remediation on Right Triangle Name_____

Identify the basic trigonometric ratios for both acute angles of the following triangles.

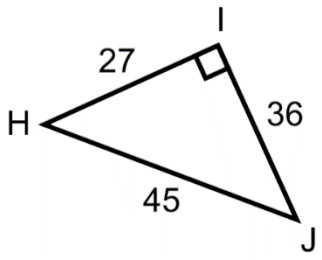
3. A.



B.



C.



4. In triangle ABC, the sin(A) = 8/10. Find the following pieces of information.

Missing side = sin(B) =

cos(A)= cos(B) =

tan(A)= tan(B) =

5. In triangle ABC, the tan(A) = 12/5. Find the following pieces of information.

Missing side = sin(B) =

cos(A)= cos(B) =

sin(A)= tan(B) =

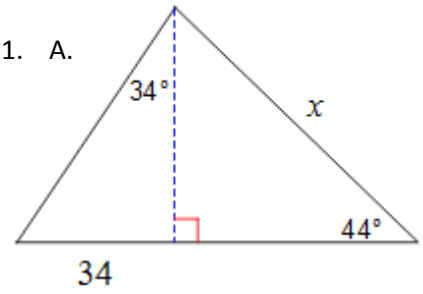
6. In triangle DEF, where F is the right angle, what trigonometric function is equivalent to sin(D)?

7. In triangle DEF, where F is the right angle, what trigonometric function is the reciprocal of tan(D)?

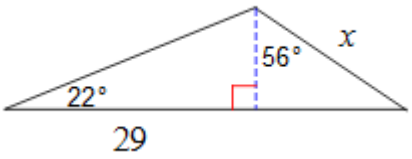
Right Triangle Trig Name_____ Date_____ Block___

Solve for x.

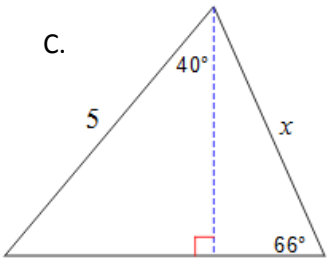
1. A.



B.

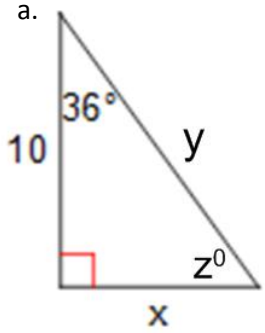


C.

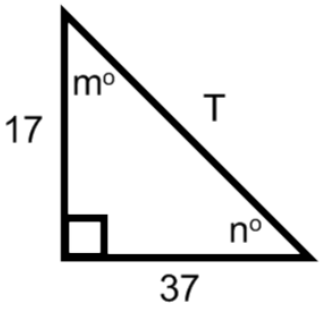


Find the missing variables.

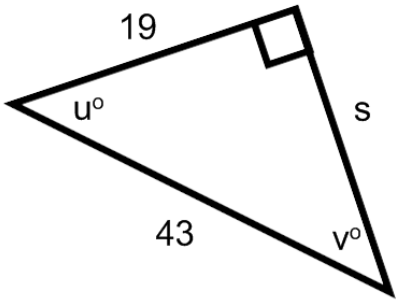
2. a.



b.



c.



3. A bird sits on top of a lamppost. The angle of depression from the bird to the feet of an observer standing away from the lamppost is 35°. The distance from the bird to the observer is 25 meters. How tall is the lamppost?

4. A tower, 28.4 feet high, must be secured with a guy wire anchored 5 feet from the base of the tower. What angle will the guy wire make with the ground?