

Name _____ Block _____

1) If I am in Fremont, then I am in CA.

Write the contrapositive.

2) If two triangles are congruent, then corresponding parts are congruent.

Write the inverse statement.

3) A quadrilateral with all right angles is a rectangle.

Write as a conditional statement.

4) If two lines cut by a transversal are parallel, then corresponding angles are congruent.

Write the converse.

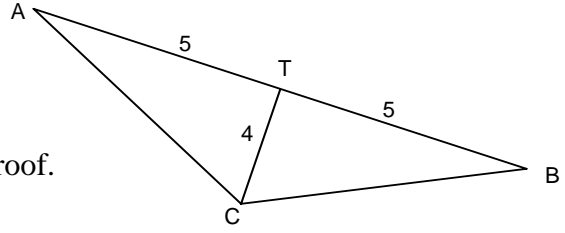
5) Prove that if two angles of a triangle are not congruent, then the sides opposite those angles are not congruent.

Write the assumption of the indirect proof.

6) Prove that if a segment does not connect the midpoints of the legs of a trapezoid, then the segment is not the median of the trapezoid.

Write the assumption for an indirect proof.

- 7) Given: $AT = BT = 5$
 $CT = 4$
 Prove: $\angle ACB$ is not a right angle.

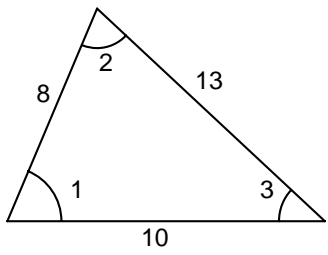


Write the assumption for an indirect proof.

- 8) Which of these sets can be the lengths of the sides of a triangle?

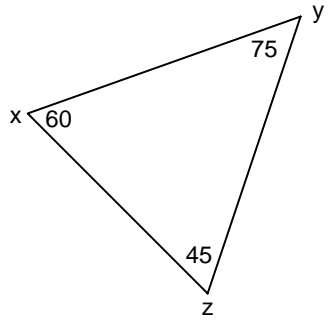
- a. 7,5,10 b. 3,11,6 c. 10,12,22

9)



name the largest angle _____
 name the smallest angle _____

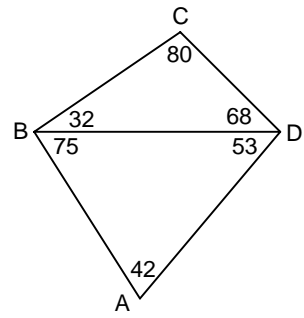
10)



name the largest side _____
 name the shortest side _____

- 11) The sides of a triangle are 12,7, x . Find the set of possible lengths of x . _____ $< x <$ _____

- 12) Arrange the 5 sides in order from longest to shortest



_____ $>$ _____ $>$ _____ $>$ _____ $>$ _____