

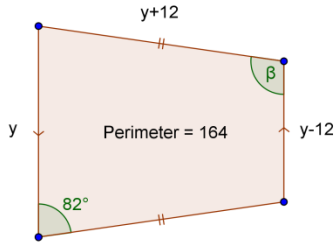
NAME: _____ PERIOD: _____ DATE: _____

TRUE-FALSE: Identify each statement as (T) rue or (F) alse.

1. ____ The measure of one interior angle of a regular quadrilateral is 90° .
2. ____ If two triangles are congruent then at least two angles and one side must be congruent.
3. ____ The line through points $(-2, 5)$ and $(-3, 2)$ is parallel to the line $y = 3x + 7$.
4. ____ You can create four diagonals from one vertex of a pentagon.
5. ____ A right triangle can be isosceles.
6. ____ If $A \perp B$ and $B \perp C$ then $A \parallel C$.
7. ____ If the base angles of an isosceles triangle are complementary, then the triangle cannot be obtuse.
8. ____ If the measure of one exterior angle of a regular polygon is 36° then the polygon has 12 sides.
9. ____ If $\triangle ABC \cong \triangle DEF$, then $\angle E \cong \angle B$.
10. ____ If the corresponding sides of two triangles are congruent then the triangles must be congruent.
11. ____ If two angles of a triangle are complementary, then the remaining angle is a right angle.
12. ____ The line $2y = x + 5$ is perpendicular to the line $6x + 3y = 8$.
13. ____ The sum of the lengths of any two sides of a triangle is always greater than the length of the third side.
14. ____ The sum of the measures of the n interior angles of an n -gon is 360° .
15. ____ The sum of the measures of the exterior angles of a stop sign is 360° .
16. ____ The diagonals of a parallelogram are congruent.
17. ____ A pair of base angles of an isosceles trapezoid are supplementary.
18. ____ The diagonals of a rectangle are perpendicular bisectors of each other.

Find the missing measures in the figures.

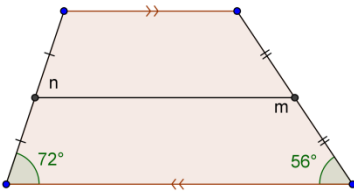
19.



$y =$ _____

$\beta =$ _____

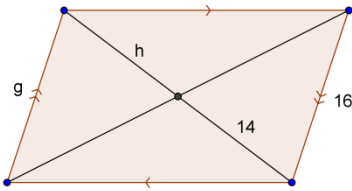
20.



$m =$ _____

$n =$ _____

21.

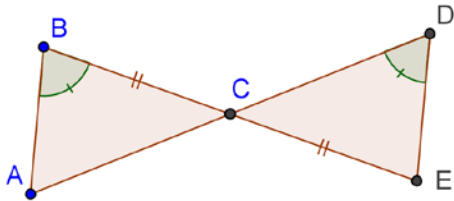


$g =$ _____

$h =$ _____

Determine which triangles, if any, are congruent. State the congruence conjecture that supports your answer. If the triangles cannot be shown to be congruent from the information given, write "CBD" (Cannot be Determined).

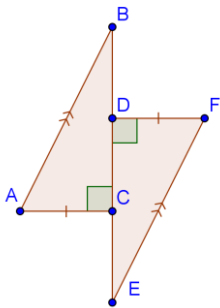
22.



$\triangle ABC \cong \triangle$ _____

Conjecture: _____

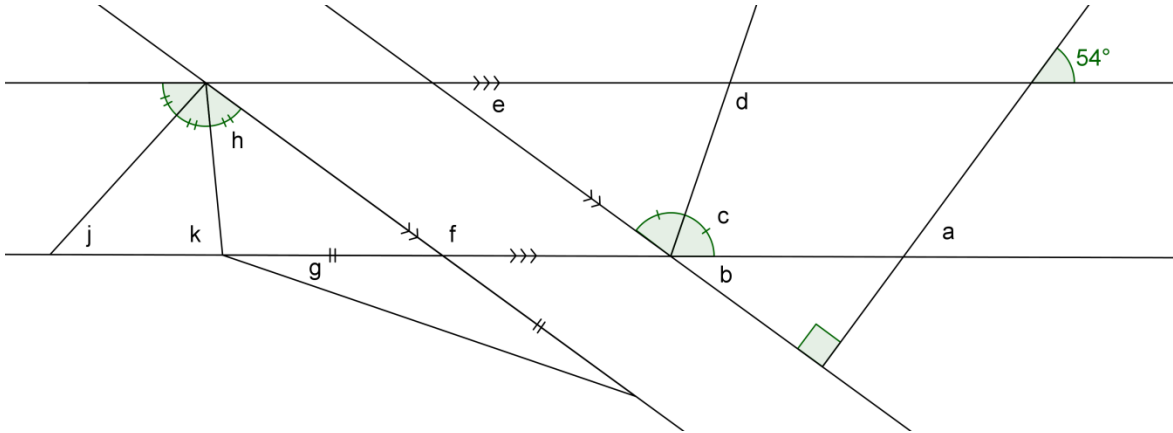
23.



$\triangle ABC \cong \triangle$ _____

Conjecture: _____

24. Find the measure of each lettered angle in the figure below.

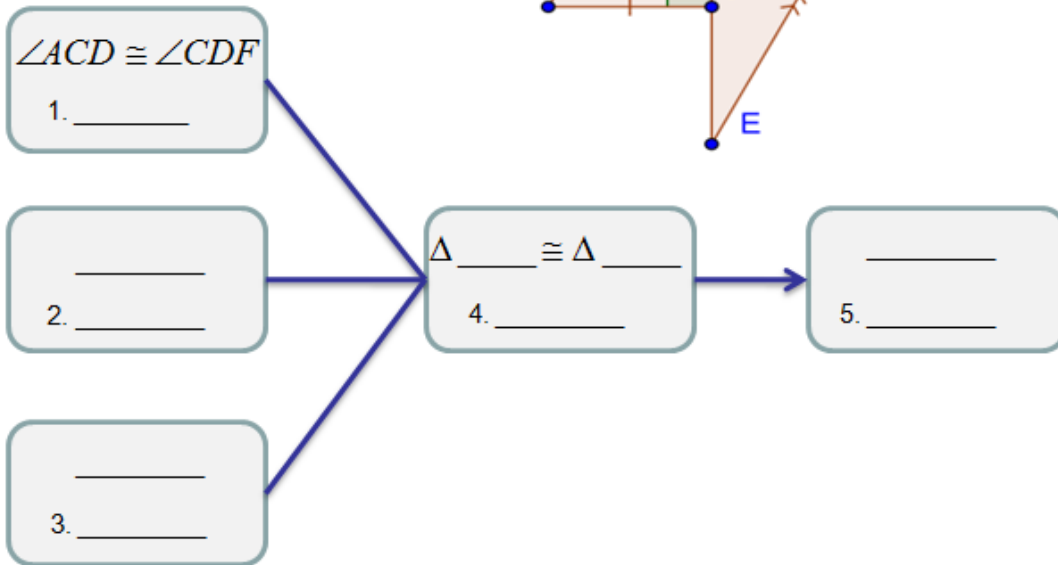
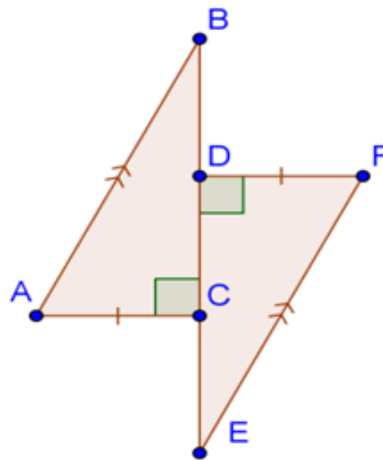


- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____
- h. _____
- j. _____
- k. _____

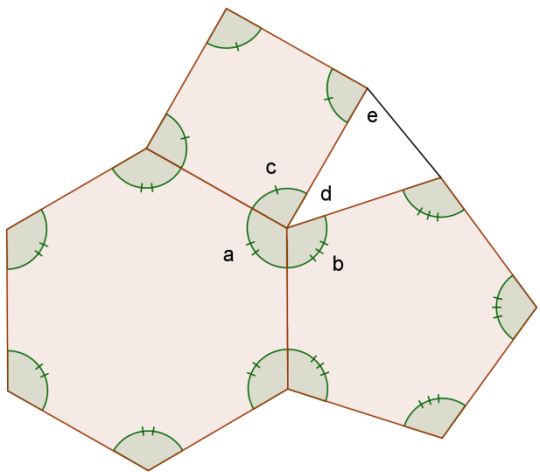
25. Fill in the blanks for each step in the flow chart proof below.

Given: $\angle ACD \cong \angle CDF$
 $\overline{AC} \cong \overline{DF}$

Show: $\overline{BC} \cong \overline{DE}$



26. Find the slope and y-intercept for the line $3x - 2y = 8$.
27. Find the equation of the line through the point $(1,0)$ and the point $(-3,7)$.
28. Find the point of intersection for the two lines $2y = 4x + 8$ and $y = x + 5$.
29. Find the measure of each lettered angle in the figure below.



a. _____
 b. _____
 c. _____

d. _____
 e. _____