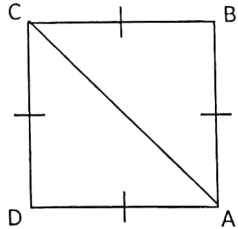
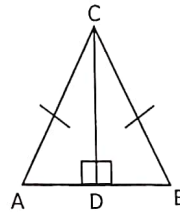


Directions: For each pair of triangles, tell which postulates (SSS, SAS, ASA, AAS, HL) make the triangles congruent. If the triangles are not congruent, write not congruent or none.

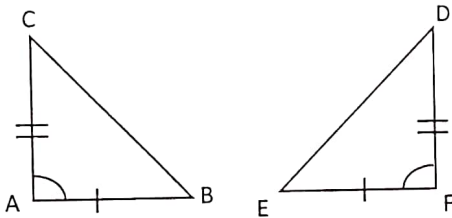
1. $\triangle ABC \cong \triangle CDA$ by _____



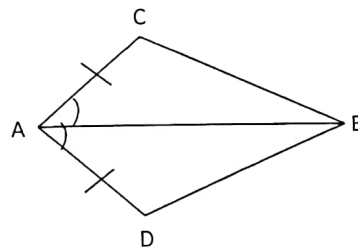
2. $\triangle ADC \cong \triangle$ _____ by _____



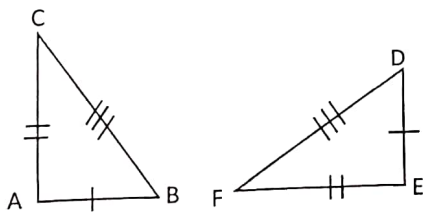
3. $\triangle ABC \cong \triangle$ _____ by _____



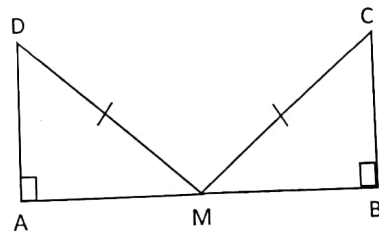
4. $\triangle ACB \cong \triangle$ _____ by _____



5. $\triangle ABC \cong \triangle$ _____ by _____

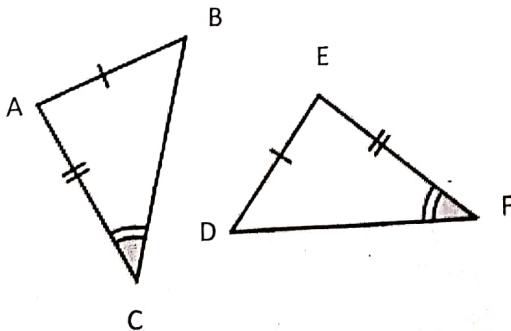


6. $\triangle AMD \cong \triangle$ _____ by _____

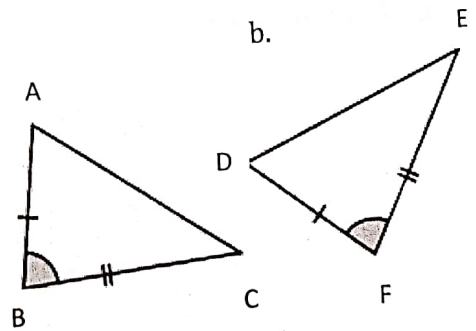


7. If the figures in the diagram below are congruent then show and explain the sequence of transformations that would be used to get one of the shapes onto the other one. If they are not congruent then explain why.

a.



b.



8. Given that $\triangle ABC \cong \triangle DEF$, fill in the congruence statements below.

$\overline{AB} \cong$ _____

$\overline{EF} \cong$ _____

$\angle C \cong$ _____

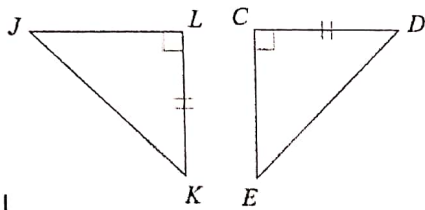
$\overline{DF} \cong$ _____

$\angle E \cong$ _____

$\angle A \cong$ _____

9. State the additional information needed to make the triangles congruent for the given reason. Then state the congruent triangles.

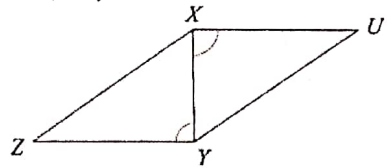
a.



HL

Need to know _____

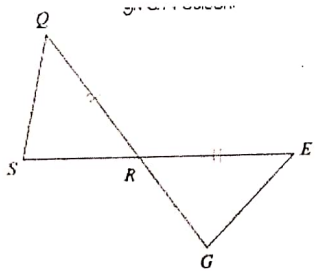
b.



ASA

Need to know _____

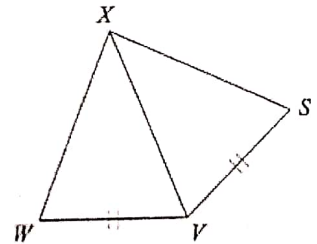
c.



SAS

Need to know _____

d.



SSS

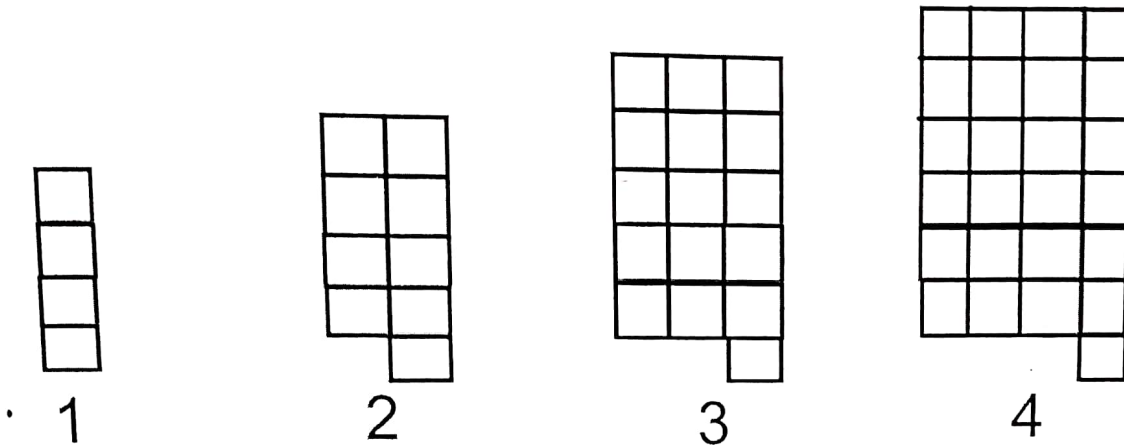
Need to know _____

10. Given the sequence below, write a recursive equation that represents the sequence

a. 7, -21, 63, -189, ...

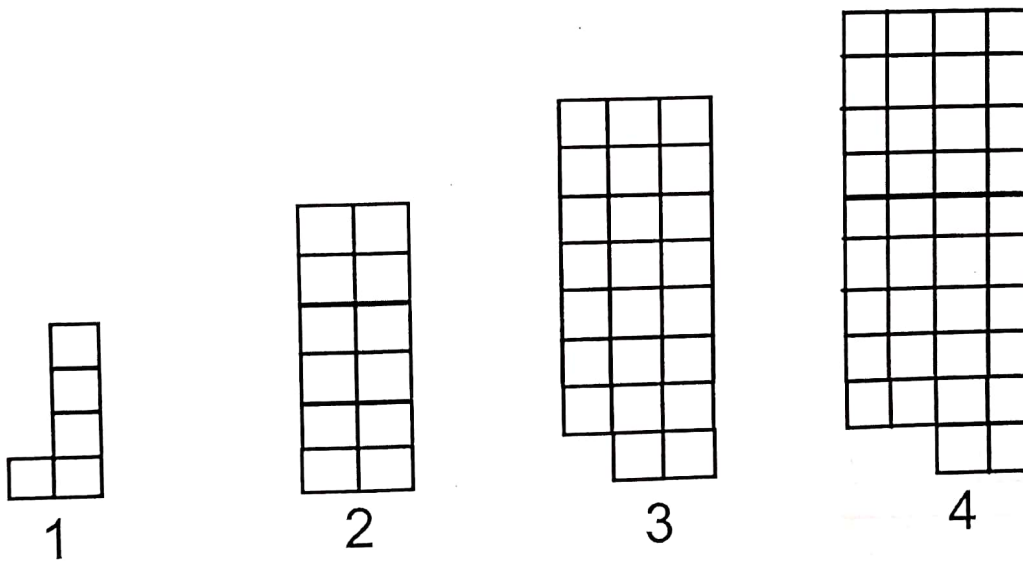
b. 21, 19.5, 18, 16.5, 15, ...

11. Given the figure below, write a recursive and explicit equation that represents the figure.



Recursive: _____

12. Given the figure below, write a recursive and explicit equation that represents the figure.



Recursive: _____

13. Answer the following questions for the table below.

X	Y
0	7
1	12
2	27
3	52
4	87

a) Type of function: _____

c) Recursive Equation: _____

14. Answer the following questions for the table below.

X	Y
0	-1
1	8
2	23
3	44
4	71

a) Type of function: _____

c) Recursive Equation: _____

15. If $\triangle PQR \cong \triangle ABC$, find the values of x and y .

Draw a picture to help you set the equations up.

a. $AB = 2x + 3y$

$PQ = 29$

$PR = 5x + 2y$

$AC = 34$

b. $\angle Q = y$

$\angle B = 4x - 10$

$\angle P = 5x + y$

$\angle A = 17$

16. Simplify.

$(x + 10)(2x + 5)$

17. State the domain and range for each graph.

