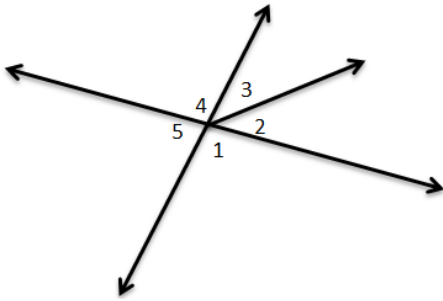
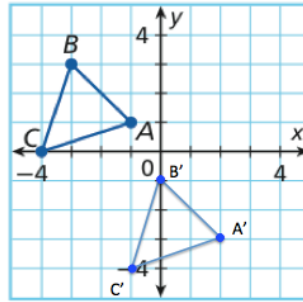


1. Identify all the adjacent angles pairs that form a linear pair.



2. Right a rule for the transformation.



$(x, y) \rightarrow (\quad , \quad)$

3. $\angle XYZ$ and $\angle PQR$ are supplementary. Find the measure of each angle.

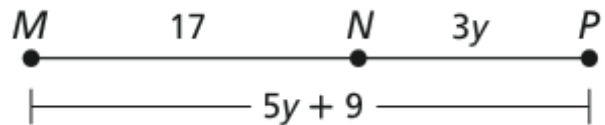
$m\angle XYZ = 2x^\circ$ and $m\angle PQR = (8x - 20)^\circ$

4. After a rotation of 90° was applied, the image was at $A'(4, 2)$, $B'(2, 6)$, $C'(10, 1)$. What are the coordinates of the preimage?

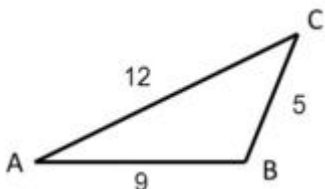
5. Determine if the measures can be side lengths of a triangle.

- A. 10, 21, 11
- B. 9, 8, 5
- C. 3.5, 4.1, 7.5
- D. 10.8, 11.2, 22.5

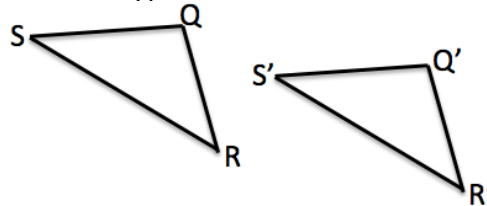
6. Find the length of MP



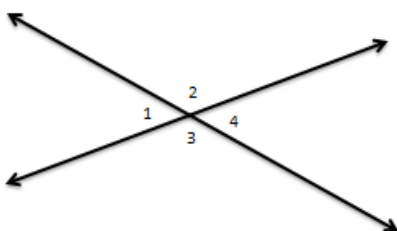
7. Order the angles from smallest to largest.



8. What type of transformation occurred?

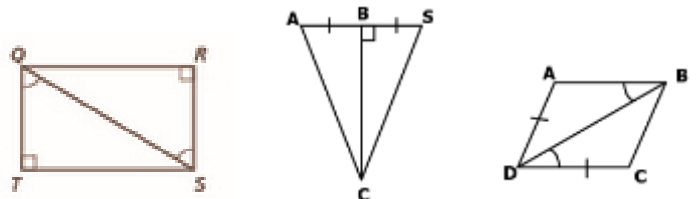


9. $m\angle 1 = 75^\circ$
Find $m\angle 2$ and $m\angle 4$

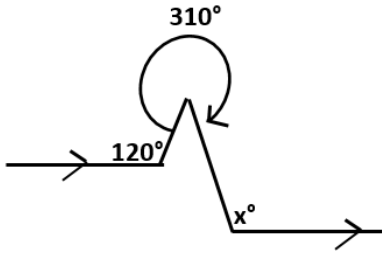


What type of angle pair are $\angle 1$ and $\angle 4$?

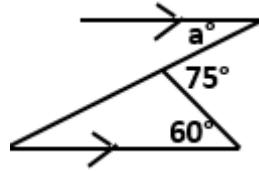
10. Identify the triangle congruence shortcut that would prove if the triangles are congruent.
A. $\triangle QST \cong \triangle SQR$ B. $\triangle BAC \cong \triangle BSC$ C. $\triangle DAB \cong \triangle BCD$



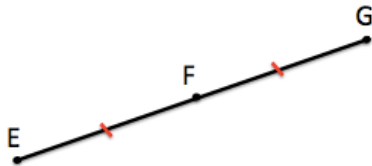
11. Find the measure of x .



12. Find the measure of a .



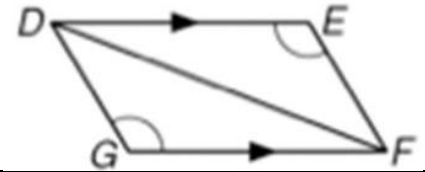
13. Segment EF measures $(7a - 17)$ cm and segment FG measures $(4a + 1)$ cm. Find the length of segment EG .



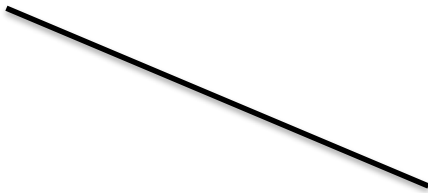
14. Identify the triangle congruence shortcut that would prove if the triangles are congruent.

A. $\triangle VUX \cong \triangle VWX$

B. $\triangle DFG \cong \triangle FDE$

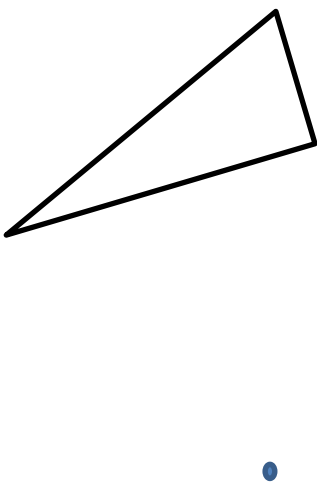


15. Bisect the segment below using a compass. Mark the congruent segments.

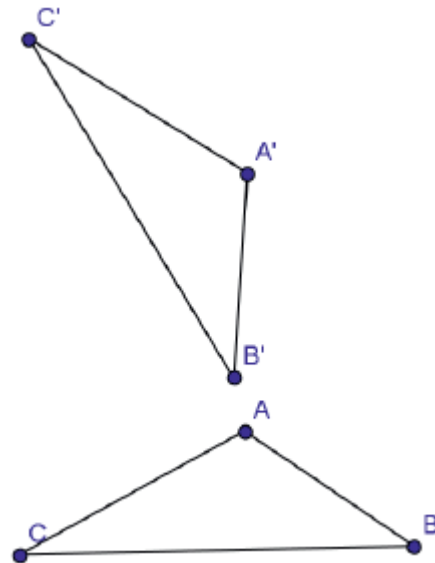


16. Draw $\angle MOP = 67^\circ$. Bisect the angle using a compass.

17. Rotate the triangle -70° about the given point.

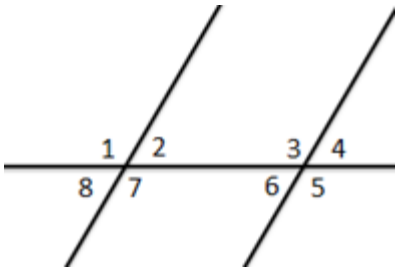


18. Find the center and angle of rotation.



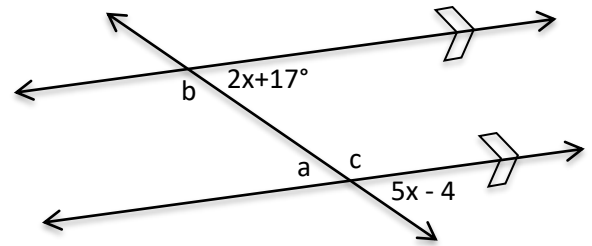
19. Name the type of pair and the relationship between them

1. $\angle 8$ and $\angle 2$ _____
2. $\angle 1$ and $\angle 5$ _____
3. $\angle 7$ and $\angle 6$ _____
4. $\angle 4$ and $\angle 5$ _____
5. $\angle 2$ and $\angle 6$ _____
6. $\angle 8$ and $\angle 6$ _____

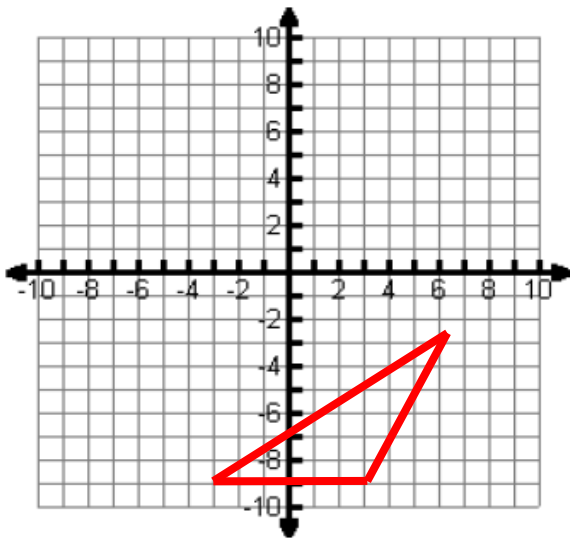


20. Find the unknown measures

$x =$ _____
 $m\angle a =$ _____
 $m\angle b =$ _____
 $m\angle c =$ _____



21. Rotate the figure 90° $(x, y) \rightarrow (\quad , \quad)$



22. Reflect the figure over the x-axis $(x, y) \rightarrow (\quad , \quad)$

