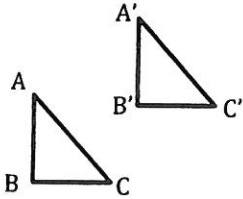
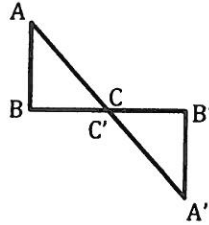


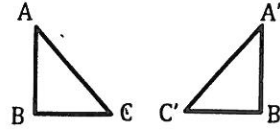
Transformation A



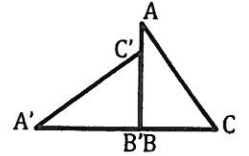
Transformation B



Transformation C

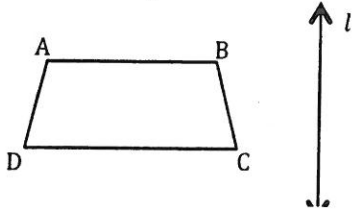


Transformation D



Choose the transformation above that matches each of the following descriptions.

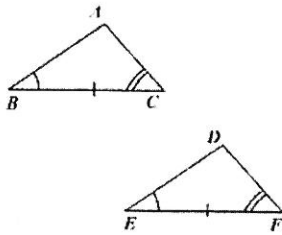
1. A 180° rotation around point C _____
2. A reflection _____
3. A translation up and to the right _____
4. A 90° counterclockwise rotation around point B _____
5. Reflect the figure in line l . Label the image. (2 points)



Rotate $\triangle ABC$ 180° counterclockwise about point A.

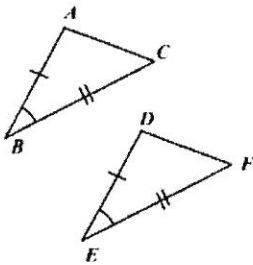
Look at each pair of triangles and then choose the statement that best describes them.

10. _____



- A. Congruent due to the SAS rule.
- B. Congruent due to the ASA rule.
- C. Congruent due to the AAS rule.
- D. There is not enough information provided to prove that these triangles are congruent.

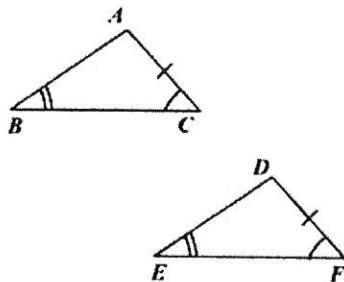
11. _____



- A. Congruent due to the SSS rule.
- B. Congruent due to the SSA rule.
- C. Congruent due to the SAS rule.
- D. There is not enough information provided to prove that these triangles are congruent.

What other information would you need in order for the triangles to be congruent according to the reason given?

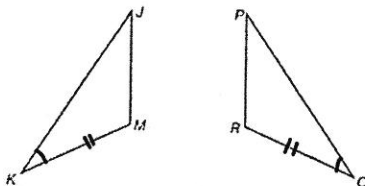
12. _____



In order for these triangles to be congruent according to SAS, I would need to know:

- A. $\overline{BA} \cong \overline{ED}$
- B. $\angle A \cong \angle D$
- C. $\overline{BC} \cong \overline{EF}$
- D. $\overline{BC} \cong \overline{ED}$

13. _____



In order for these triangles to be congruent according to ASA, I would need to know:

- A. $\overline{MJ} \cong \overline{RP}$
- B. $\angle J \cong \angle P$
- C. $\overline{KJ} \cong \overline{QP}$
- D. $\angle M \cong \angle R$

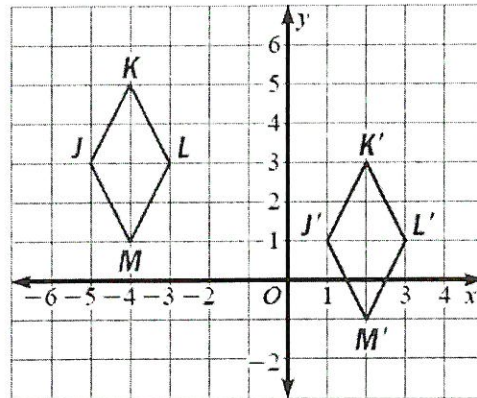
14. _____ Which of the following coordinate rules represents a reflection in the y-axis?

- A. $(x, y) \rightarrow (-x, -y)$
- B. $(x, y) \rightarrow (4x, 4y)$
- C. $(x, y) \rightarrow (-x, y)$

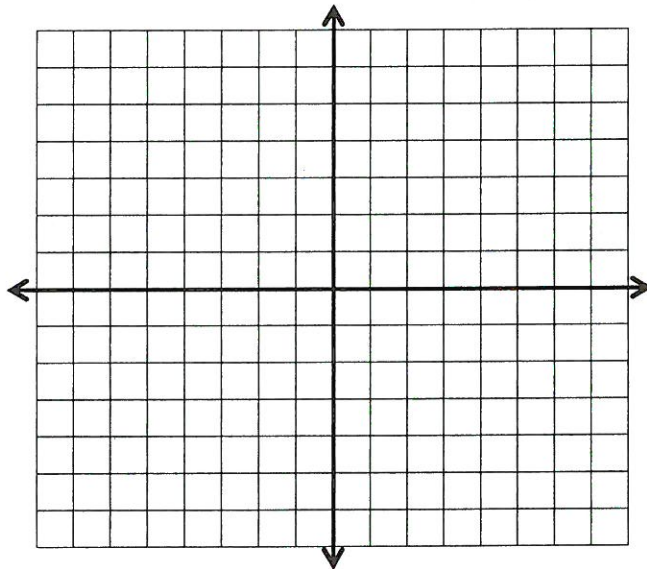
D. $(x, y) \rightarrow (y, x)$

15. Which rule describes the translation of $JKLM$ to $J'K'L'M'$?

- A. $(x, y) \rightarrow (x - 6, y + 2)$
- B. $(x, y) \rightarrow (x - 2, y + 6)$
- C. $(x, y) \rightarrow (x - 6, y - 2)$
- D. $(x, y) \rightarrow (x + 6, y - 2)$



16. Draw and label *parallelogram ABCD* with the following coordinates: $A(-3, 3)$, $B(2, 3)$, $C(4, 1)$, and $D(-1, 1)$. Transform the figure according to the coordinate rule $(x, y) \rightarrow (x, -y)$. Label the image. (2 points)



Line l and line m are parallel. Find the measures of the angles.

- 17. $\angle d$ _____
- 18. $\angle e$ _____
- 19. $\angle i$ _____
- 20. $\angle p$ _____

