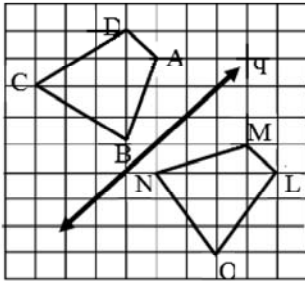
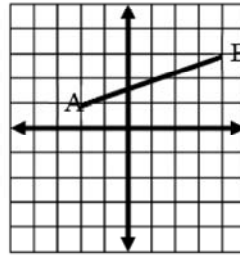


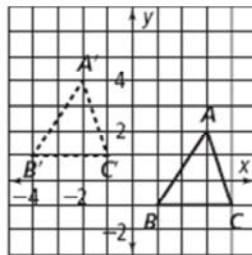
1. $R_{\text{line } q}(\overline{BA})$ is _____.



2. Use the rule $T\langle 1, -5 \rangle(\overline{AB})$ to find the coordinates of the endpoints of the image $\overline{A'B'}$.

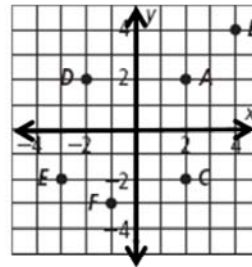


3. The dashed-line figure is a translation image of the solid-line figure. Write a rule to describe the translation.



Find the coordinates of each image.

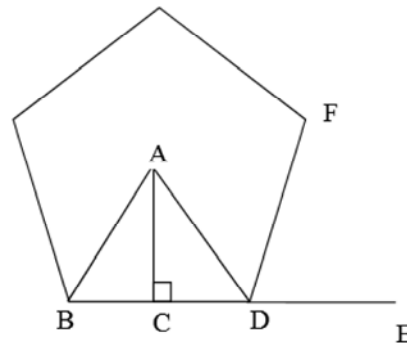
4. $R_{x\text{-axis}}(E)$
5. $R_{y\text{-axis}}(F)$
6. $R_{x=-1}(C)$
7. $R_{y=-1}(D)$



4. (,)
5. (,)
6. (,)
7. (,)

Use the figure at the right to identify the parts of the polygon. (questions 8-14)

8. The radius is _____ or _____.
9. The apothem is _____.
10. The side of the polygon is _____.
11. The center is _____.
12. The central angle is _____.
13. The interior angle is _____.
14. An exterior angle is _____.
15. Find the central angle of a regular pentagon.



Either Round your answer to the nearest **whole number or leave in radical form. SHOW ALL WORK!!!**

16. Find the area of a regular hexagon with a radius of 12”.

17. Find the perimeter of a regular nonagon with an apothem of 12”

18. Find the area of a regular octagon if the perimeter is 112”.

19. What is the measure of a side of an equilateral triangle with an apothem of 30 cm?

20. Find the area of a triangle with a radius of 20 cm.