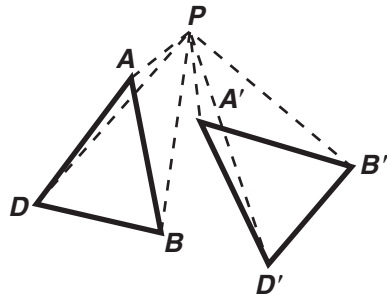
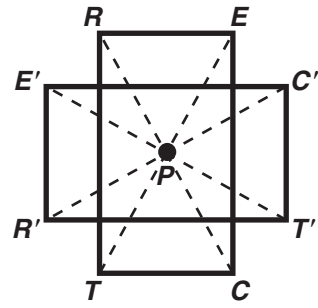


Answers for Lesson 9-3, pp. 485–487 Exercises

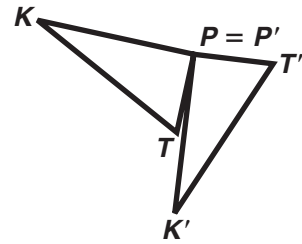
1.



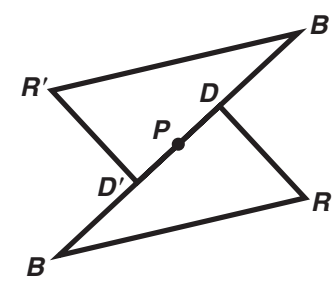
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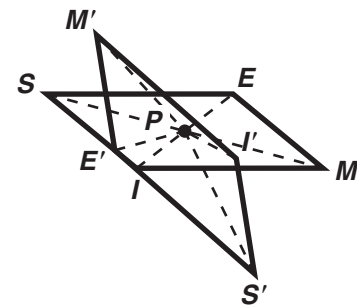
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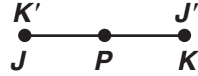
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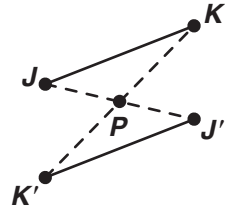
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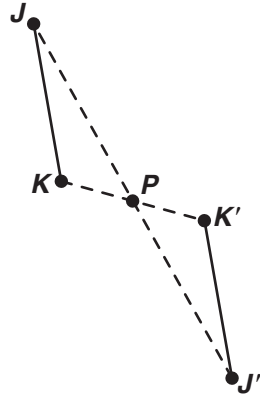
6.



7.

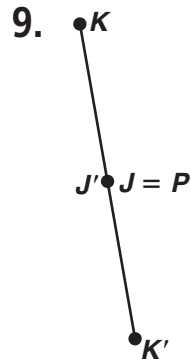


8.



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Answers for Lesson 9-3, pp. 485–487 Exercises (cont.)



10. H

11. M

12. C

13. \overline{BC}

14. A

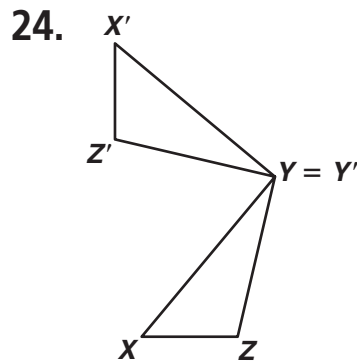
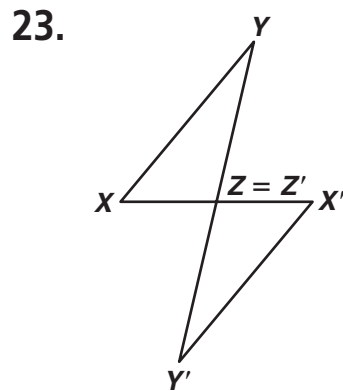
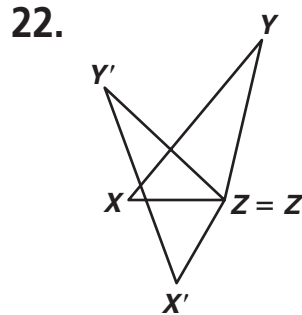
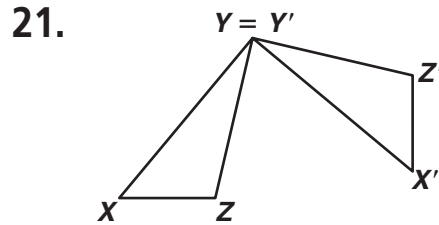
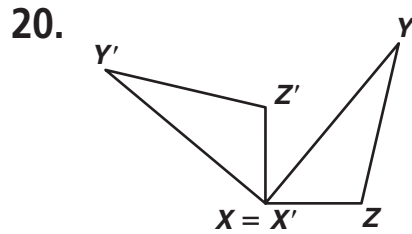
15. \overline{LM}

17. K

19. $108^\circ; 252$

16. I

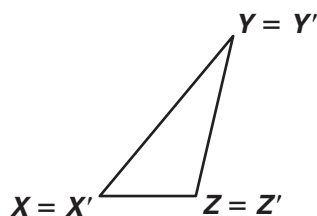
18. $90^\circ; 270$



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Answers for Lesson 9-3, pp. 485–487 Exercises (cont.)

25.



26. $\overline{MN} \cong \overline{M'N'}$; $\overline{EN} \cong \overline{EN'}$;
 $\overline{ME} \cong \overline{M'E}$; $\angle M \cong \angle M'$;
 $\angle N \cong \angle N'$; $\angle MEN \cong$
 $\angle M'EN'$; $\angle MEM' \cong$
 $\angle NEN'$

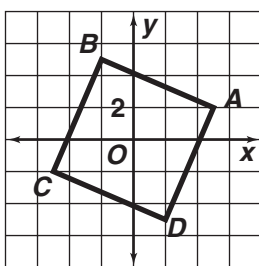
27. 180° rotation about its center

28. 180

29. 110

30. 290

31. a–c.



d. Square; all sides are \cong and all \sphericalangle s are 90° .

32. Draw two segments connecting preimage pts. A and B to image pts. A' and B' . Construct the \perp bis. of $\overline{AA'}$ and $\overline{BB'}$ to find C , the center of rotation. $m\angle ACA'$ is the \angle of rotation.

33. Answers may vary. Sample: a 90° and a 270° rotation

34. Check students' graphs.

Rotation about origin: $L'(1, 2)$, $M'(2, 6)$, $N'(-2, 4)$

Rotation about L : $L'(2, -1)$, $M'(3, 3)$, $N'(-1, 1)$

Rotation about M : $L'(5, -6)$, $M'(6, -2)$, $N'(2, -4)$

Rotation about N : $L'(7, 0)$, $M'(8, 4)$, $N'(4, 2)$