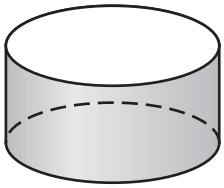
LESSON 12.1

NAME _____ DATE _____

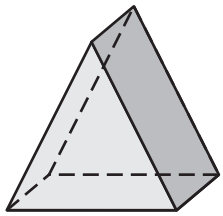
Practice A

For use with pages 719–726

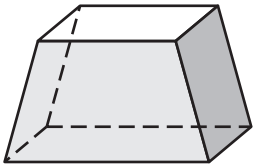
Tell whether the solid is a polyhedron. Explain your reasoning.

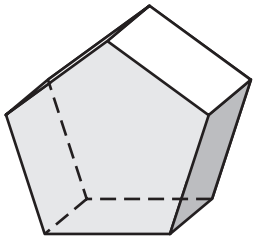
1. 

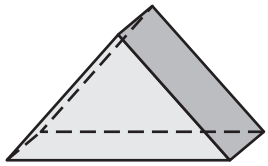
2. 

3. 

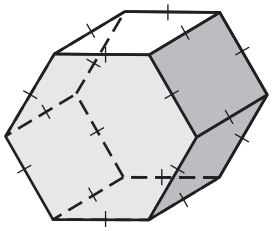
Count the number of faces, vertices, and edges of the polyhedron.

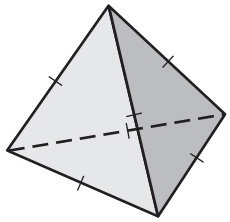
4. 

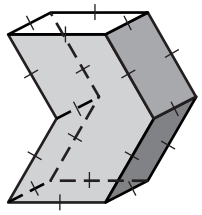
5. 

6. 

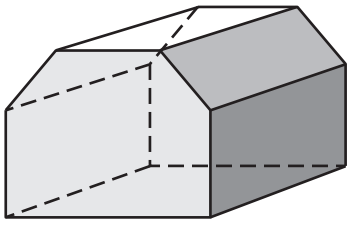
Decide whether the polyhedron is regular and/or convex. Explain.

7. 

8. 

9. 

In Exercises 10–13, use the figure shown which represents a barn.



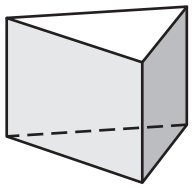
10. How many faces does the barn have?

11. How many vertices does the barn have?

12. How many edges does the barn have?

13. Do your results satisfy Euler's Theorem?

In Exercises 14–19, use the figure shown which represents a piece of cake.



14. How many faces does the piece of cake have?

15. How many vertices does the piece of cake have?

16. How many edges does the piece of cake have?

17. Do your results satisfy Euler's Theorem?

18. Make a sketch to show how a cross section of the piece of cake could be a triangle.

19. Make a sketch to show how a cross section of the piece of cake could be a rectangle.