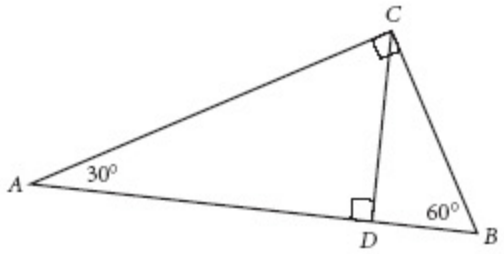
NAME _____ CLASS _____ DATE _____

Practice Masters Level B

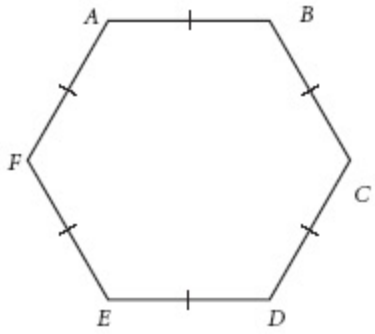
5.5 Special Triangles and Areas of Regular Polygons

In $\triangle ABC$, $\overline{AC} \perp \overline{BC}$, $\overline{CD}$ is the altitude to AB. Use the figure to find the missing measures in Exercises 1–6.



	AB	BC	CD	AD	DB	AC
1.	8					
2.		2				
3.			4			
4.				9		
5.					10	
6.						12

For Exercises 7–9, refer to the regular hexagon, *ABCDEF*.



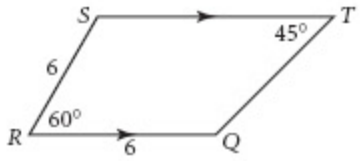
7. If the area of *ABCDEF* is 841.8 square units, find the length of each side. _____

8. If the area of *ABCDEF* is 841.8 square units, find the length of the apothem. _____

9. If the apothem equals 4, what is the area?

_____

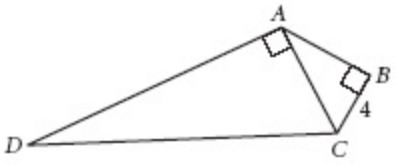
For Exercises 10 and 11, refer to trapezoid *TQRS*.



10. Find the perimeter of *TQRS*. _____

11. Find the area of *TQRS*. _____

In the figure at the right, m∠*BAC* = 45° and m∠*D* = 30°.



12. Find *AC*. _____

13. Find *AD*. _____

14. Find *CD*. _____

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