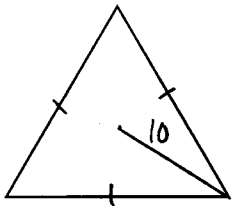
REVIEW PROBLEMS

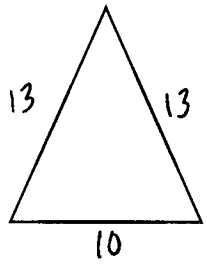
(Secs 7-1, 7-4 thru 7-7, 8-6)

FOR 1-9, FIND THE AREA OF EACH POLYGON:

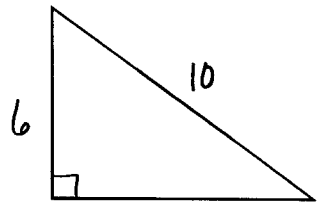
1.



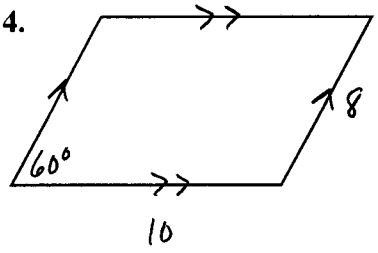
2.



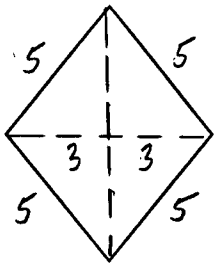
3.



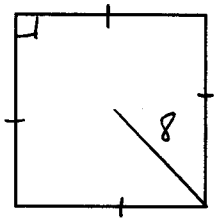
4.



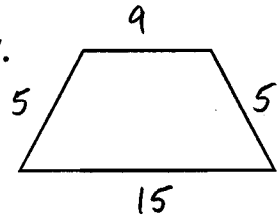
5.



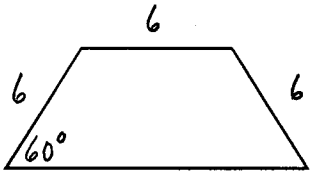
6.



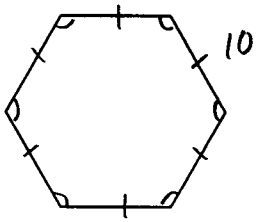
7.



8.

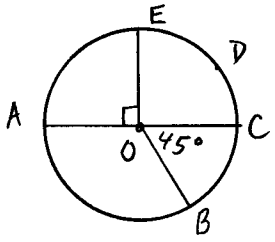


9.



10. **ABCDEF is a regular hexagon with sides 12 in. Find the areas of the three regions formed when diagonals $\overline{AC}$ and $\overline{AD}$ are drawn.**

FIND THE MEASURE OF THE ARCS:

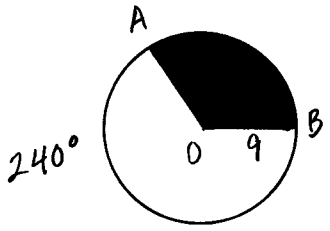


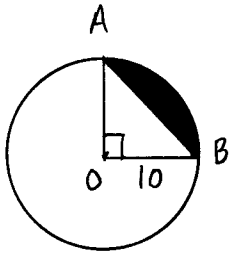
11. $m\overset{\frown}{AB}$

12. $m\overset{\frown}{ACB}$

13. $m\overset{\frown}{ECB}$

FIND THE LENGTH OF $\overset{\frown}{AB}$ AND THE SHADED AREA:





14. $\overset{\frown}{AB}$ = _____ **15.** Area = _____ **16.** $\overset{\frown}{AB}$ = _____ **17.** Area = _____

COMPLETE THE TABLE FOR SIMILAR POLYGONS/CIRCLES:

	SIMILARITY RATIO	PERIMETER RATIO	AREA RATIO
18.	3:5		
19.		2:7	
20.			36:125

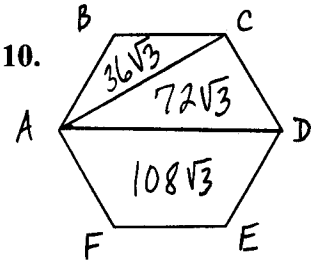
********** ANSWERS **********

1. $75\sqrt{3}$ **2.** 60 **3.** 24

4. $40\sqrt{3}$ **5.** 24 **6.** 128

7. 48 **8.** $27\sqrt{3}$ **9.** $150\sqrt{3}$

10.



11. 135^0 **12.** 225^0

13. 135^0 **14.** 6π **15.** 27π

16. 5π **17.** $25\pi - 50$

	SIMILARITY RATIO	PERIMETER RATIO	AREA RATIO
18.	3:5	**3:5**	**9:25**
19.	**2:7**	2:7	**4:49**
20.	**6:5$\sqrt{5}$**	**6:5$\sqrt{5}$**	36:125