REVIEW PROBLEMS
(Chapter 7)

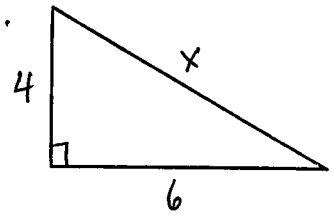
SIMPLIFY:

1. $3\sqrt{48}$

2. $(3\sqrt{5})^2$

SOLVE USING PYTHAGOREAN THEOREM:

3.



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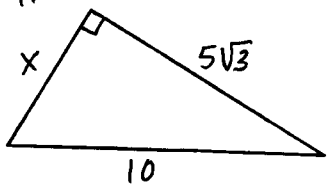


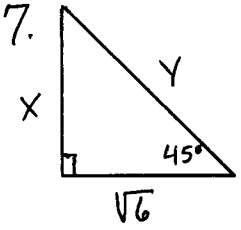
NAME THE TYPE OF Δ FORMED:

5. 5, 6, 5

6. 8, 2, 6

FIND THE MISSING LENGTHS:

7.



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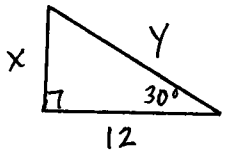
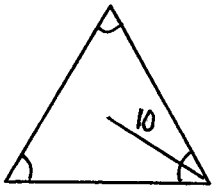


FIND THE AREA OF EACH POLYGON:

9.



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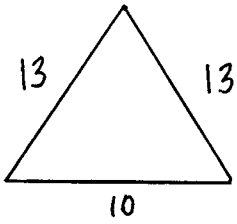

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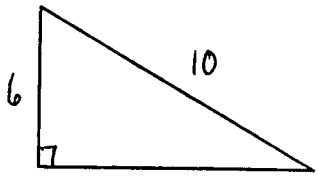

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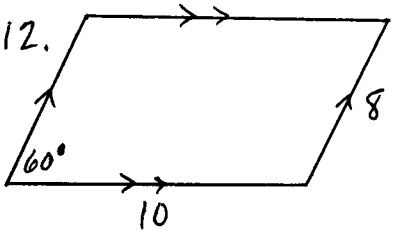

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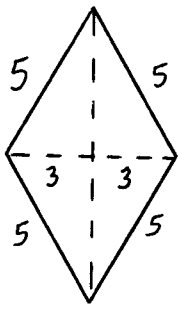

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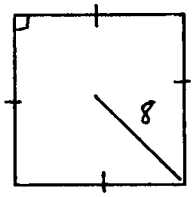

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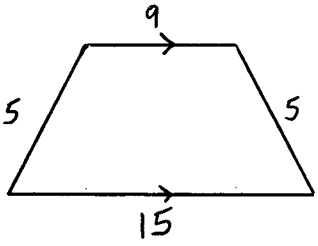

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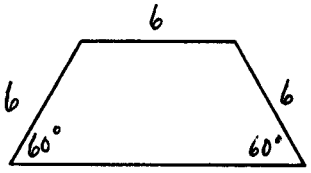
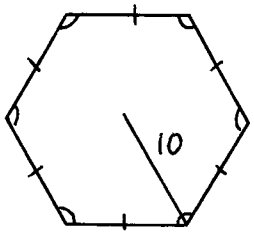
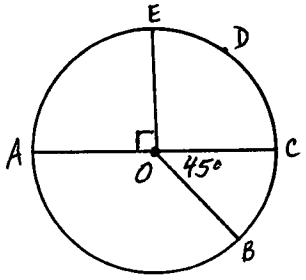


17.



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

FIND THE MEASURE OF THE ARCS:

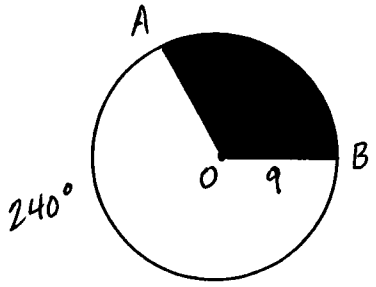


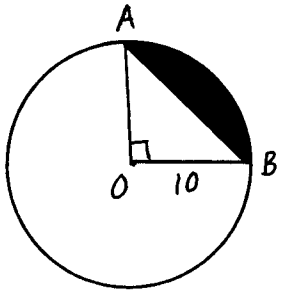
19. $m\overset{\frown}{AB}$

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

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

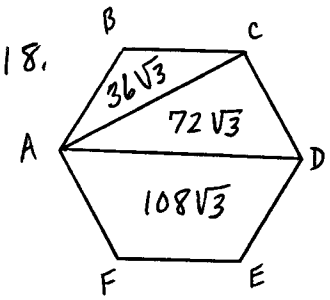
FIND THE LENGTH OF $\overset{\frown}{AB}$ AND THE SHADED AREA:





22. $\overset{\frown}{AB}$ = ____ 23. Area = ____ 24. $\overset{\frown}{AB}$ = ____ 25. Area = ____

ANSWERS

1. $12\sqrt{3}$
2. 45
3. $X = 2\sqrt{13}$
4. $X = 5$
5. acute
6. no Δ
7. $X = \sqrt{6}$
   $Y = 2\sqrt{3}$
8. $X = 4\sqrt{3}$
   $Y = 8\sqrt{3}$
9. $75\sqrt{3}$
10. 60
11. 24
12. $40\sqrt{3}$
13. 24
14. 128
15. 48
16. $27\sqrt{3}$
17. $150\sqrt{3}$
18. 

19. 135°
20. 225°
21. 135°
22. 6π
23. 27π
24. 5π
25. $25\pi - 50$