Ch. 12 Worksheet Homework

- 1. A right prism with equilateral triangles as bases, the sides of the triangle are 8 cm. The height of the prism is 10. Find the LA, TA and V.
- A right prism with triangles as bases, the sides of the triangles measure 9,12,15. The height of the prism is 10. Find the LA, TA, and V.
- 3. A right prism with Isosceles triangles as bases. The lengths of the sides of the triangle are 13,13,10. The height of the prism is 7. Find the LA, TA and V.
- 4. A right prism with Isosceles trapezoids as bases. The bases of the trapezoid are 10 and 4 and has legs of 5. The height of the prism is 20. Find the LA, TA, and V.
- 5. A right prism with rhombus' as bases. The Diagonals of the rhombus are 6 and 8. The height of the prism is 9. Find the LA,TA and V.
- 6. A right prism with regular hexagons as bases. The length of the sides of the hexagon are 8 and the height of the prism is 12. Find the LA, TA and V.

Answers:

1.	LA 240	$\begin{array}{l} \text{TA} \\ 240 + 32\sqrt{3} \end{array}$	$V \\ 160\sqrt{3}$
2.	360	468	540
3.	252	372	420
4.	480	536	560
5.	180	228	216
6.	576	576 +192 <i>√</i> 3	1152√3