REVIEW PROBLEMS
(8-4, 7-2, 7-3, 7-5)

SIMPLIFY THE FOLLOWING RADICALS:

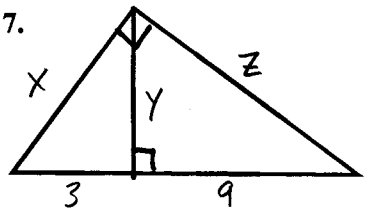
1. $\sqrt{96}$ **2.** $\frac{10}{\sqrt{5}}$ **3.** $2\sqrt{24}$ **4.** $(3\sqrt{6})^2$

SOLVE THE FOLLOWING QUADRATIC EAQUATIONS:

5. $3x^2 - x = 4$ **6.** $36x^2 - 1 = 0$

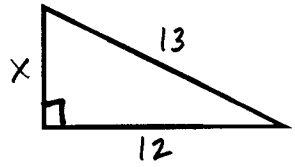
FIND x, y AND z :

7.

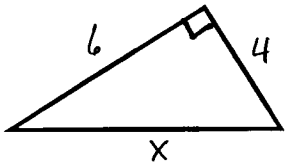


SOLVE THE FOLLOWING USING THE PYTHAGOREAN THEOREM:

8.



9.



NAME THE TYPE OF TRIANGLE FORMED:

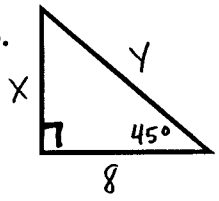
10. 5, 8, 6 _____

11. 10, 12, 10 _____

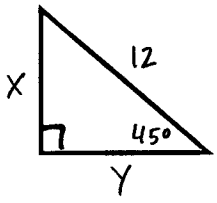
12. $8, 4\sqrt{3}, 4$ _____

FIND THE MSSING LENGTHS:

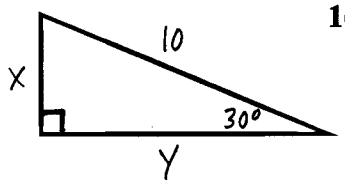
13.



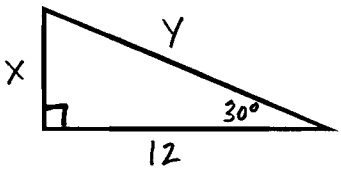
14.



15.

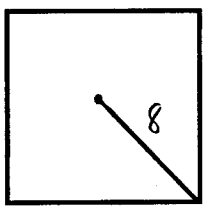


16.

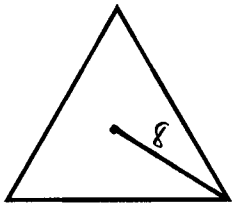


FIND THE AREA OF THE FOLLOWING REGULAR POLYGONS:

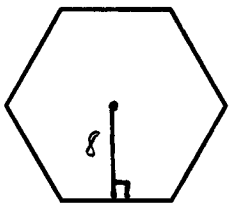
17.



18.



19.



ANSWERS

1. $4\sqrt{6}$

2. $2\sqrt{5}$

3. $4\sqrt{6}$

4. 54

5. $x = \frac{4}{3}, -1$

6. $x = \pm \frac{1}{6}$

7. $x = 6,\ y = 3\sqrt{3},\ z = 6\sqrt{3}$

8. $x = 5$

9. $x = 2\sqrt{13}$

10. obtuse

11. acute

12. right

13. $x = 8,\ y = 8\sqrt{2}$

14. $x = y = 6\sqrt{2}$

15. $x = 5,\ y = 5\sqrt{3}$

16. $x = 4\sqrt{3},\ y = 8\sqrt{3}$

17. 128

18. $48\sqrt{3}$

19. $128\sqrt{3}$