



Find the EXACT VALUE for each angle using reference angles and special triangles. NO DECIMALS!!!!

1. $\sin 315$

2. $\cos 240$

3. $\tan 300$

4. $\cos 330$

5. $\sin 150$

6. $\sin 120$

7. $\tan 225$

8. $\cos 210$

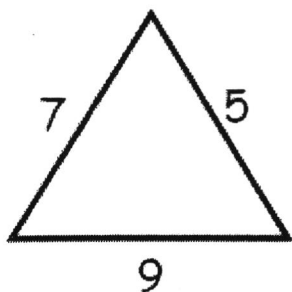
9. $\tan 210$

10. $\sin 210$

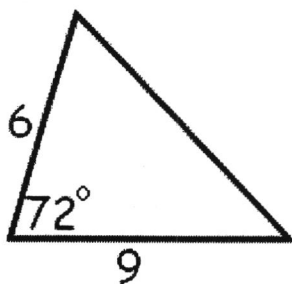
Part 2

Find the area of each triangle.

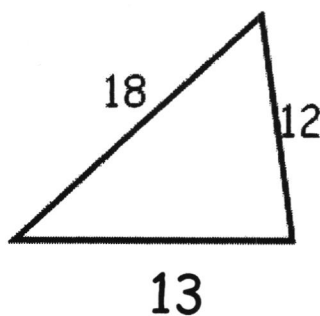
11.



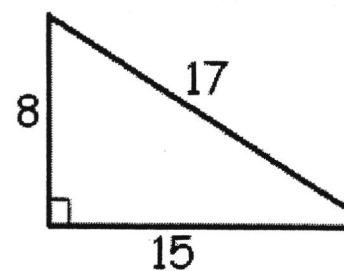
12.



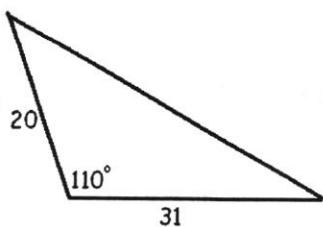
13.



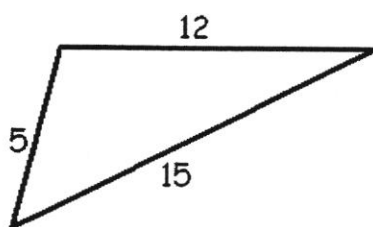
14.



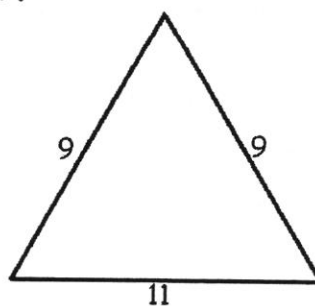
15.



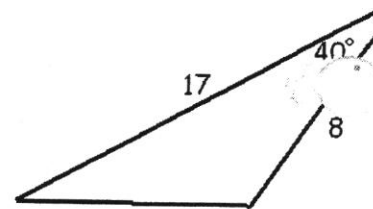
16.



17.



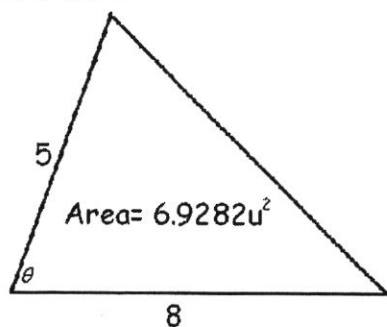
18.



Part 3 Answer each of the following.

19. A triangle with an area of 47.128ft^2 has side lengths of 8ft and 13 ft. What is the measure of the angle between them?

20. A triangle with an area of 280m^2 has side lengths of 28m and 20m. What is the measure of the angle between them?

21. Find θ :21. Find θ :