Circle Unit 3 Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_

Find *x*. Show work when appropriate.

|  |  |  |
| --- | --- | --- |
| 1. | 2. | 3. |
| 4. | 5. | 6. |
| 7.              . | 8. | 9. |
| 10. | 11. | 12. |
| 13.      AB = \_\_\_\_\_\_ | 14.  is tangent to  at B    AB = \_\_\_\_\_\_\_ | 15. Find the Surface Area and Volume of a Basketball with a diameter of 12 inches. |
| 16. Find the area sector of one piece of apple pie if the radius of the pan is 5 inches and there are 6 equal pieces. | 17. Find the Circumference of a Frisbee that has a radius of 4 inches… | 18.    m<R = 75      M<T = \_\_\_\_\_\_ |



Given: 

19.  24. 

20.  25. 

21.  26. 

22.  27. 

23.  28. 







**BONUS:**

**SHOW METHOD!**

29. .  30.  31. 

 

  



Is AB tangent to the circle?

Explain

  

Find x

32. 33. 34.

35. Find the volume of a cylinder with radius of 8.5 and height of 15.

36. Find the radius of a cone with a volume of 83.33π and a height of 10.

37. Find the area of the shaded region



38. Before a soccer ball gets filled with air, the shell of the soccer ball must be created. Suppose the surface area of the soccer ball, or the shell that must be created, is 16. How much volume will the soccer ball have once it is filled with air?

39. The outfield fence at the NP baseball field is an average of 350 feet away from home plate. The outfield grass meets the infield dirt at an average of 120 feet from home plate. What is the area of the outfield? In the diagram below, it is the shaded area (not to scale).



|------120 feet------|

|---------------350 feet----------------|

40. Adjacent to the NP baseball field is the NP softball field. The outfield fence of the softball field is an average of 200 feet from home plate. A “pole” is described as running along the outfield fence from one foul pole to the other. Assuming you would rather run a shorter distance, would you rather run 10 poles on the baseball field or 18 poles on the softball field?  ***SHOW YOUR WORK.***