

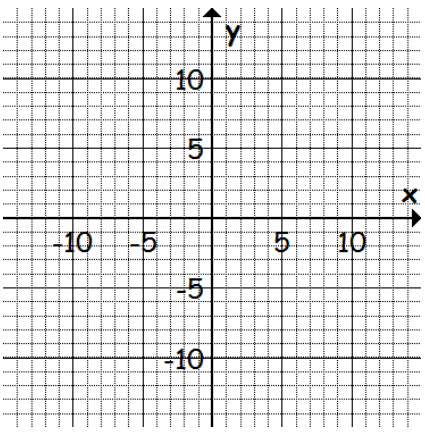
Circles

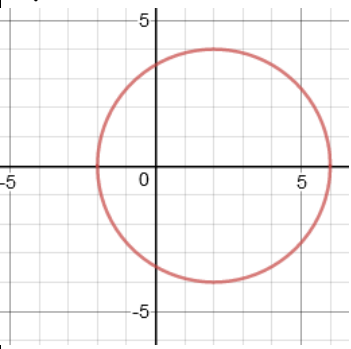
Group member names _____

C-Level

G7A-1 and G7A-2 I can write the equation of a circle and graph a circle. (14 points)

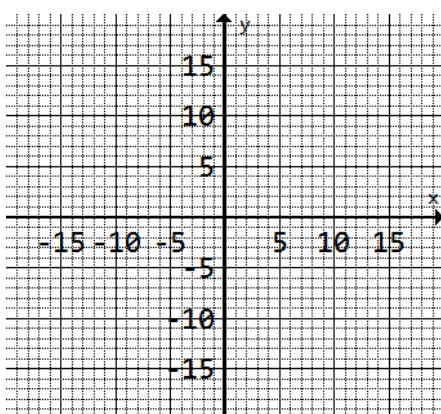
1. $(x+4)^2 + (y-9)^2 = 25$
Center: _____
Radius: _____



2. 

Center: _____ Radius: _____
Equation: _____

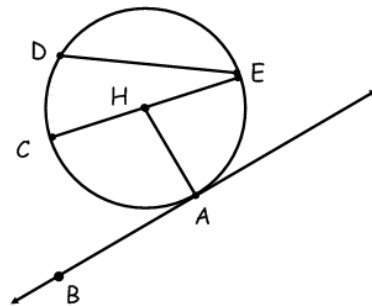
3. $x^2 - 8x + 16 + y^2 + 12y + 36 = 121$
Center: _____ Radius: _____



G7A-3 I can identify the parts of a circle (7 points)

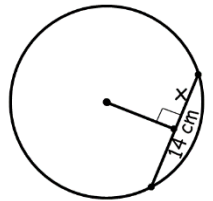
4. Using correct symbols, name all:

Centers	
Radii	
Diameters	
Chords	
Tangent lines	
Points of tangency	
Inscribed angles	
Central Angles	major arcs
minor arcs	Semicircles

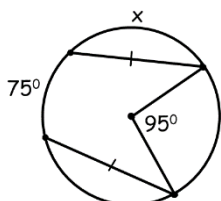


G7A-3(2) I can use the properties of chords and tangent lines. (7 points)

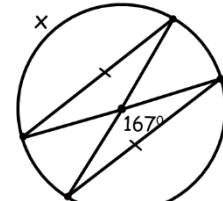
5. $x =$ _____



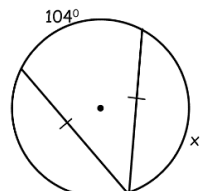
6. $x =$ _____



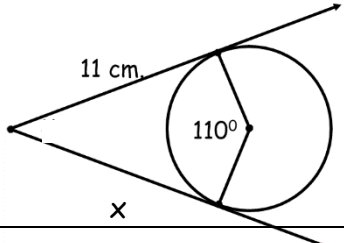
7. $x =$ _____



8. $x =$ _____

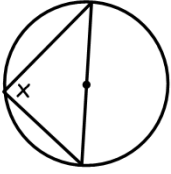


9. $x =$ _____

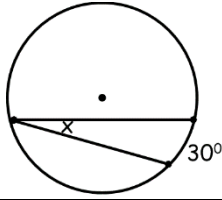


G7A-4 I can use the properties of inscribed and central angles (7 points)

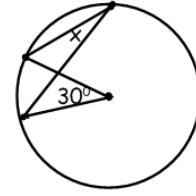
10. $x =$ _____



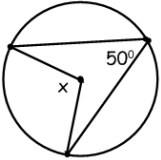
11. $x =$ _____



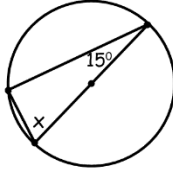
12. $x =$ _____



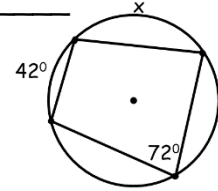
13. $x =$ _____



14. $x =$ _____



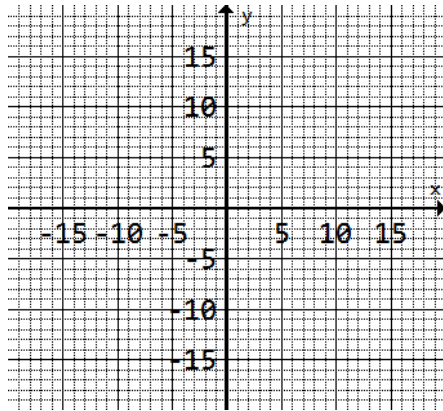
15. $x =$ _____



B-Level

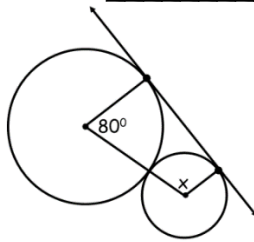
16. $x^2 + 10x + y^2 - 4y = 52$

Center: _____ Radius _____



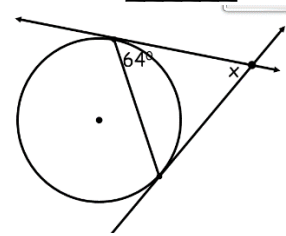
(3 points)

17. $x =$ _____



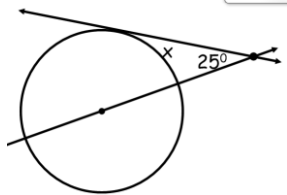
(1.5 pts.)

18. $x =$ _____



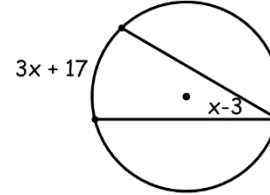
(2 pts.)

19. $x =$ _____



(1.5 pts.)

20. $x =$ _____



(2 pts.)

A-Level (2.5 points each)

21. Find the equation of a circle with the center on the line $y=2x$. It touches the y -axis at only one point and has a radius of 2 units.

22. $x =$ _____

