

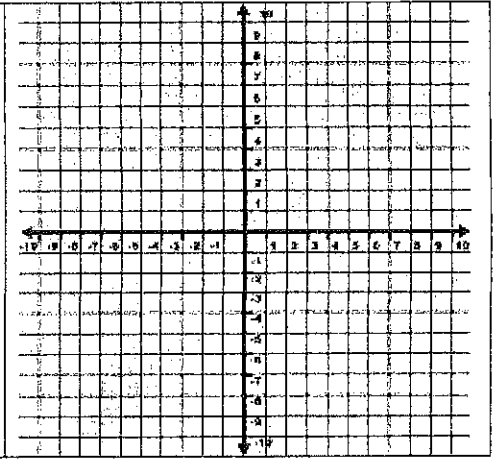
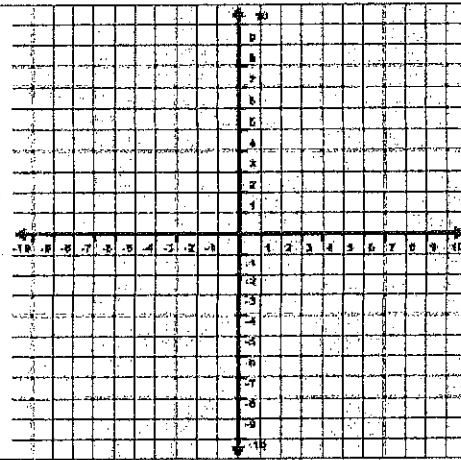
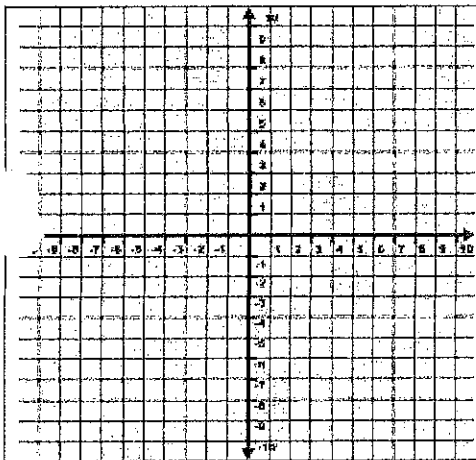
**7S 11.1 Circles Worksheet**

For #'s 1 – 3, write the equation of the circle.

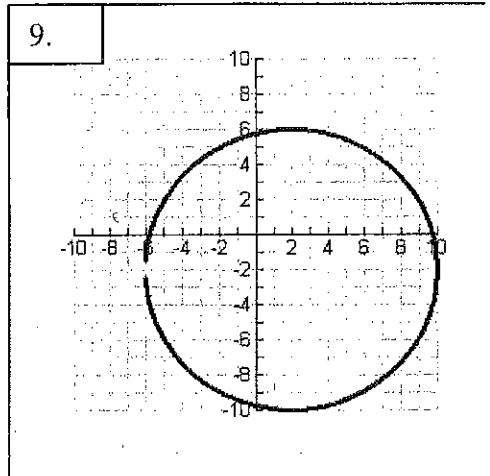
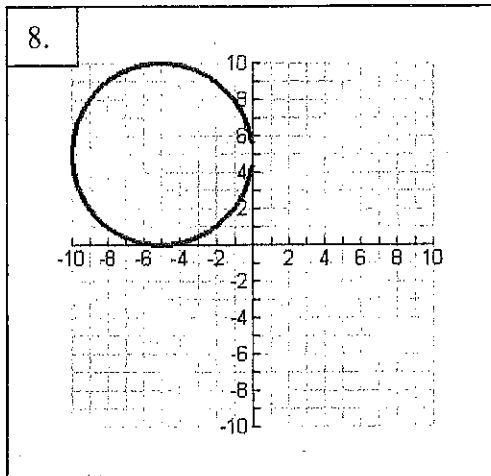
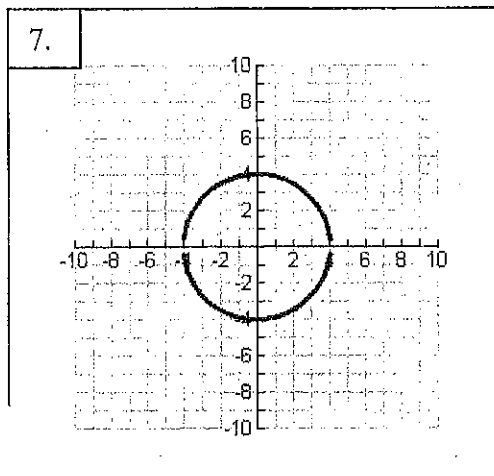
1. center  $(-3,6)$  & radius of 4      2. center  $(-2,-8)$  & radius of 6      3. center at origin & radius of 9

For #'s 4 – 6, Graph the circle

4.  $(x + 5)^2 + y^2 = 16$       5.  $(x - 2)^2 + (y + 3)^2 = 49$       6.  $x^2 + (y - 3)^2 = 4$



For #'s 7 – 9, identify the center and radius and write the equation of the circle.



For #'s 10 – 15, write the equation of the circle given the following information.

10. center  $(-1,0)$   
contains the point  $(2,-4)$

11. center  $(0,0)$   
contains the point  $(-7,24)$

12. center  $(2,-1)$   
contains the point  $(4,4)$

13. center  $(5,3)$   
contains the point  $(-5,0)$

14. center  $(6,-1)$   
contains the point  $(0,6)$

15. center  $(-3,-4)$   
contains the point  $(3,4)$