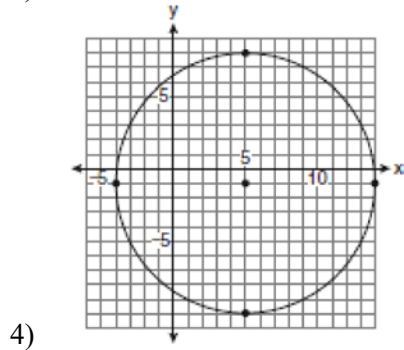
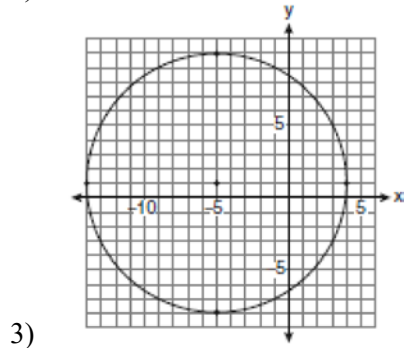
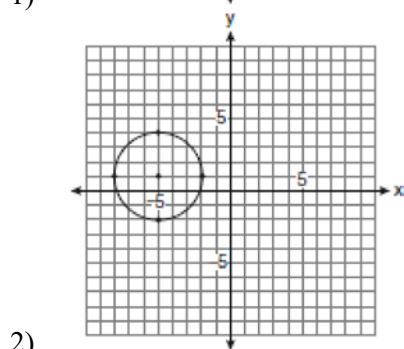
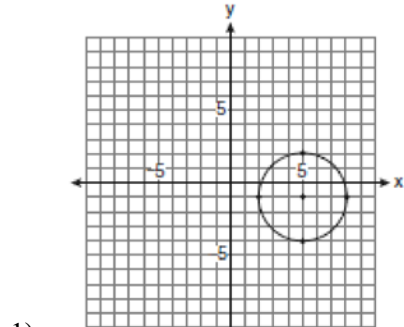
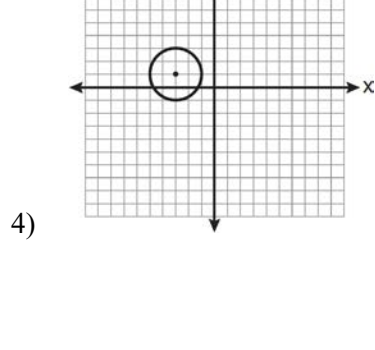
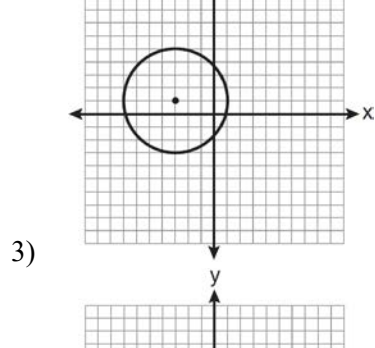
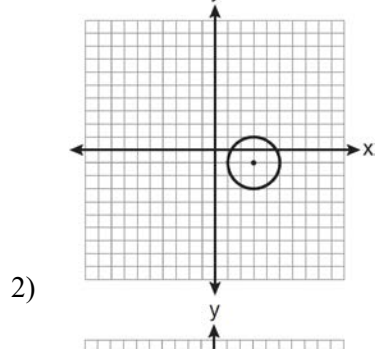
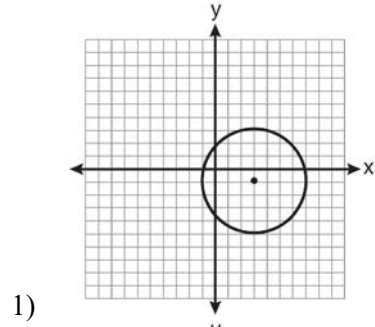


**G.G.74: Graphing Circles: Graph circles of the form  $(x - h)^2 + (y - k)^2 = r^2$**

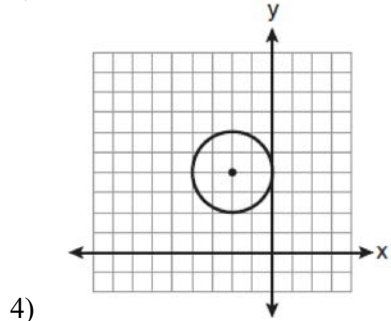
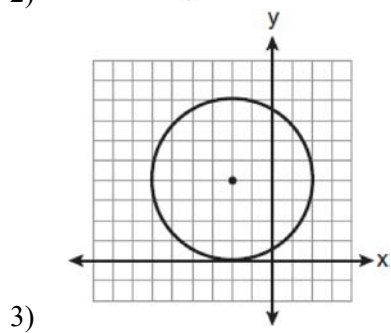
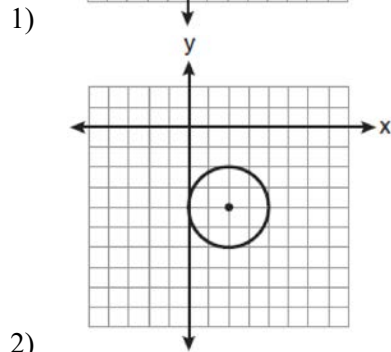
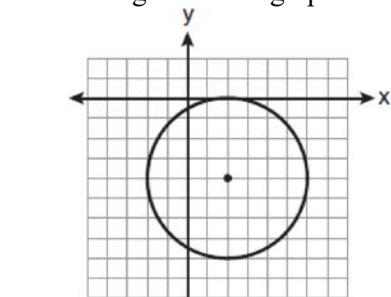
- 1 Which graph represents a circle with the equation  $(x - 5)^2 + (y + 1)^2 = 9$ ?



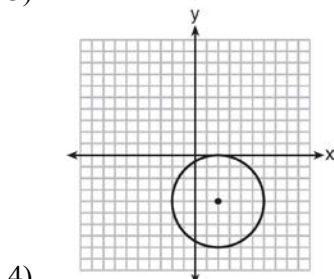
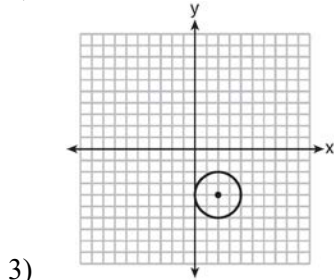
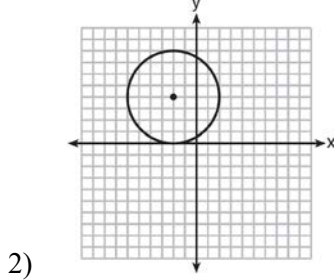
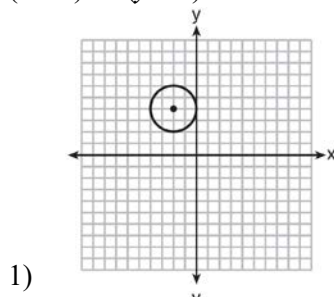
- 2 Which graph represents a circle with the equation  $(x - 3)^2 + (y + 1)^2 = 4$ ?



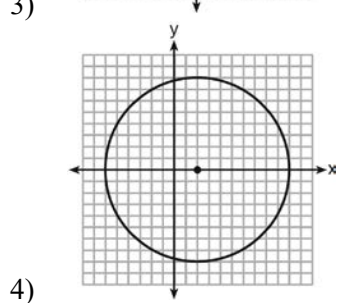
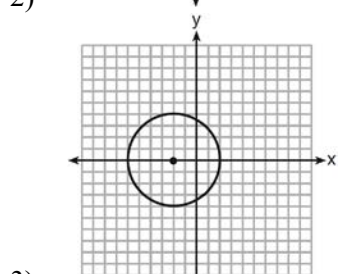
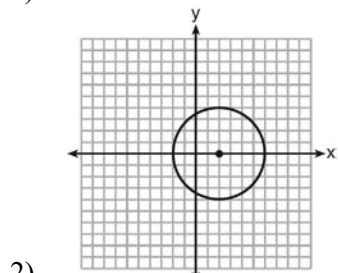
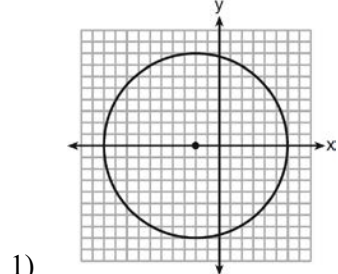
- 3 The equation of a circle is  $(x - 2)^2 + (y + 4)^2 = 4$ . Which diagram is the graph of the circle?



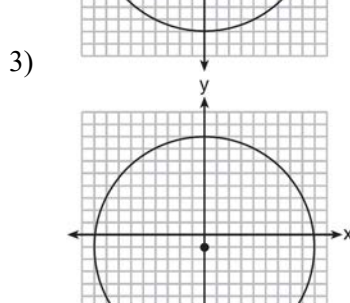
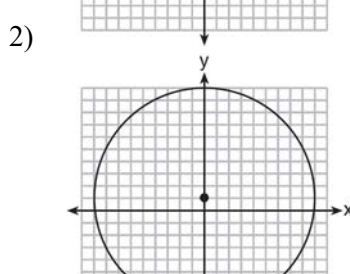
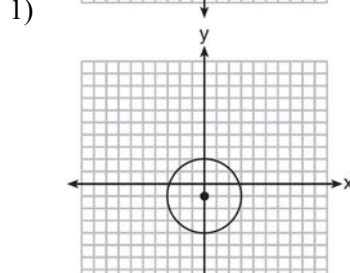
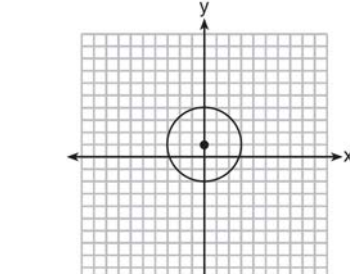
- 4 Which graph represents a circle whose equation is  $(x - 2)^2 + (y + 4)^2 = 4$ ?



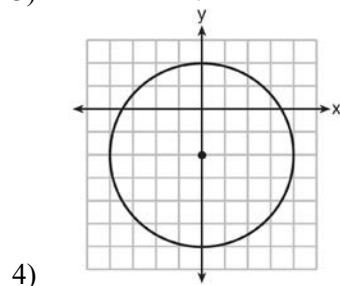
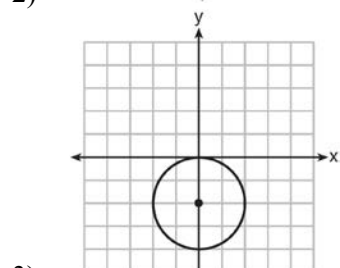
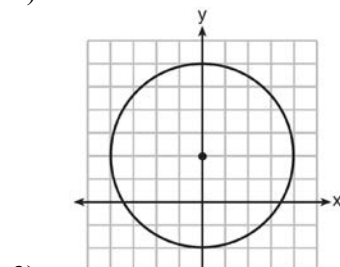
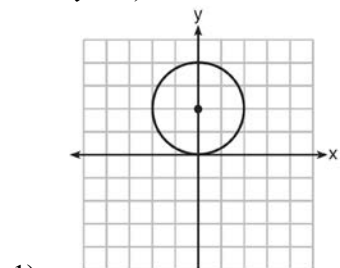
- 5 Which graph represents a circle whose equation is  $(x + 2)^2 + y^2 = 16$ ?



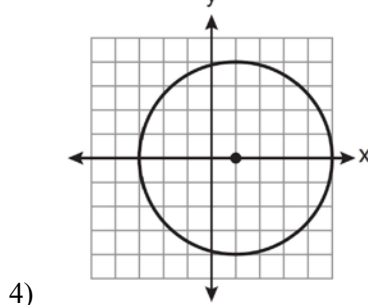
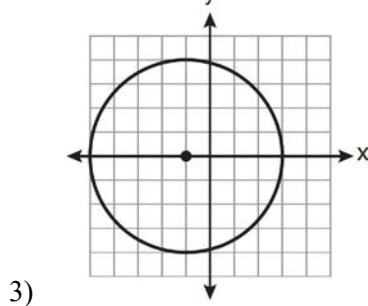
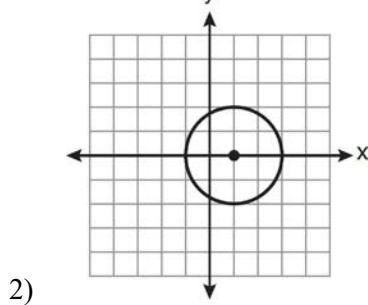
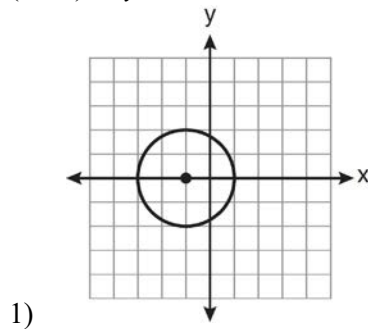
- 6 Which graph represents a circle whose equation is  $x^2 + (y - 1)^2 = 9$ ?



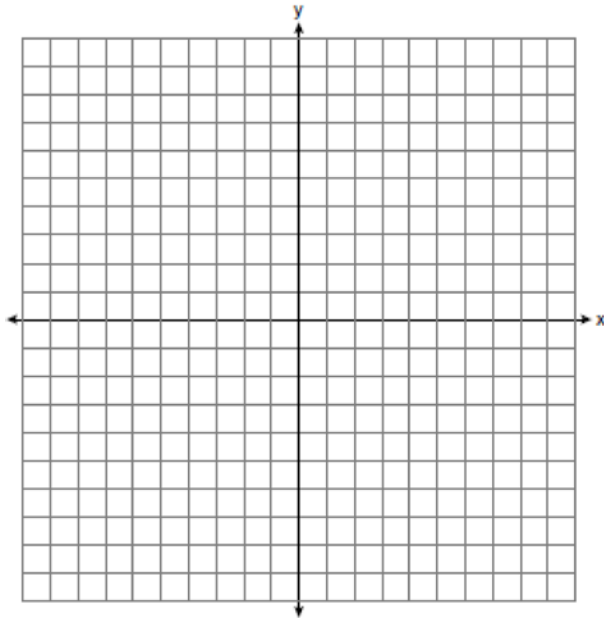
- 7 Which graph represents a circle whose equation is  $x^2 + (y - 2)^2 = 4$ ?



- 8 Which graph represents the graph of the equation  $(x - 1)^2 + y^2 = 4$ ?

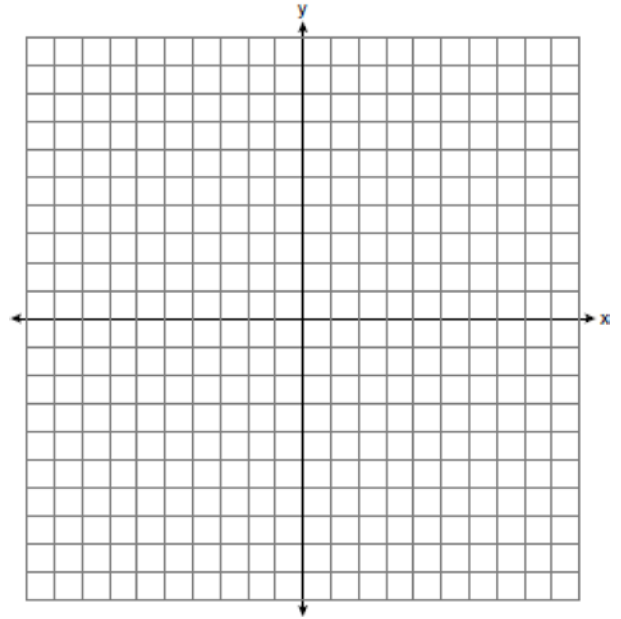


- 9 John uses the equation  $x^2 + y^2 = 9$  to represent the shape of a garden on graph paper.
- a Graph  $x^2 + y^2 = 9$  on the accompanying grid.



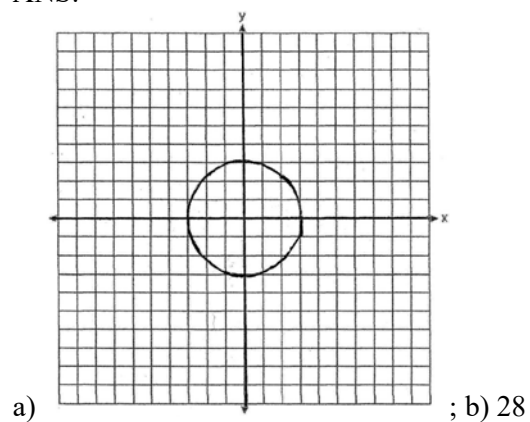
- b What is the area of the garden to the nearest square unit?

- 10 On the set of axes below, graph and label circle  $A$  whose equation is  $(x + 4)^2 + (y - 2)^2 = 16$  and circle  $B$  whose equation is  $x^2 + y^2 = 9$ . Determine, in simplest radical form, the length of the line segment with endpoints at the centers of circles  $A$  and  $B$ .



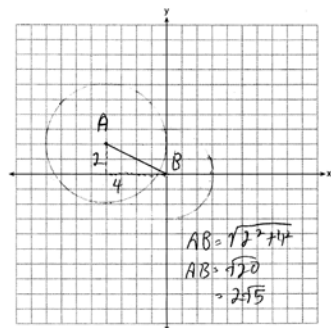
**G.G.74: Graphing Circles: Graph circles of the form  $(x - h)^2 + (y - k)^2 = r^2$**   
**Answer Section**

- 1 ANS: 1 REF: 060920ge  
 2 ANS: 2 REF: 011125ge  
 3 ANS: 2 REF: 011020ge  
 4 ANS: 3 REF: 011518ge  
 5 ANS: 3 REF: 061220ge  
 6 ANS: 1 REF: 061325ge  
 7 ANS: 1 REF: 081324ge  
 8 ANS: 2 REF: 081425ge  
 9 ANS:



REF: 010133a

- 10 ANS:



REF: 081537ge