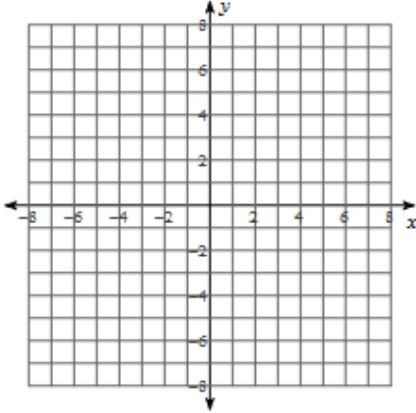


Classwork for Sideways (Sleeping) Parabolas

Solve each equation for y. Then identify the Locator Point (LP). Lastly put both equations into your calculator and graph them.

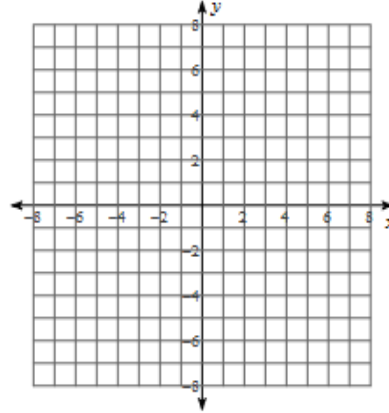
1)  $x = (y + 4)^2 - 2$

LP = \_\_\_\_\_



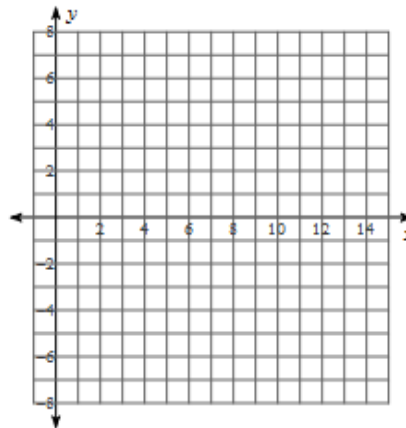
2.)  $x = (y - 5)^2 + 3$

LP = \_\_\_\_\_



3.) Graph  $x = 4(y - 2)^2 - 3$

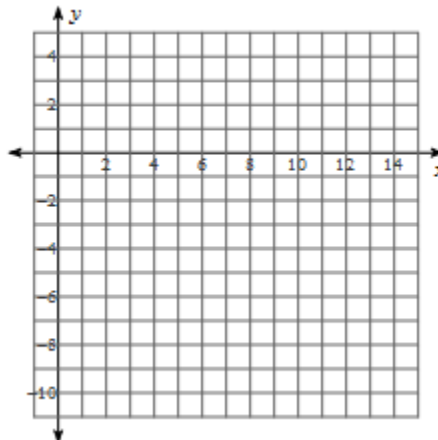
LP = \_\_\_\_\_



4.) Graph  $x = \frac{1}{4}(y + 3)^2 + 1$

LP = \_\_\_\_\_

Stretch factor = \_\_\_\_\_



1.  $x^2 + y^2 = 100$



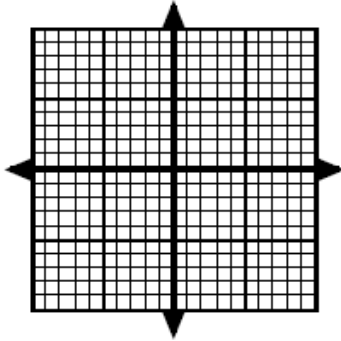
2.  $(x - 5)^2 + (y + 2)^2 = 4$



3.  $(x + 1)^2 + y^2 = 25$

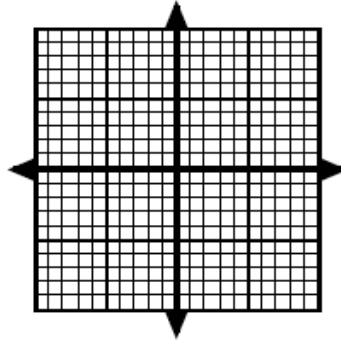


4.  $x^2 + (y - 7)^2 = 9$



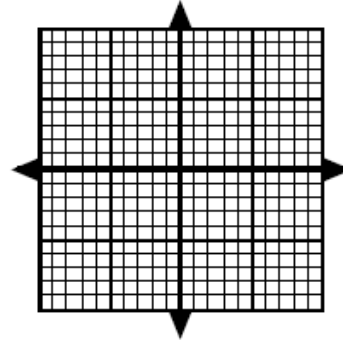
Radius:  
Center:

5.  $(x + 1)^2 + (y - 4)^2 = 36$



Radius:  
Center:

6.  $(x - 5)^2 + y^2 = 1$



Radius:  
Center:

**Write an equation for the circle with the given center and given radius.**

10. Center:  $(3, 5)$   
Radius: 5

11. Center:  $(-2, 4)$   
Radius:  $\sqrt{6}$

12. Center:  $(-3, 6)$   
Radius: 9