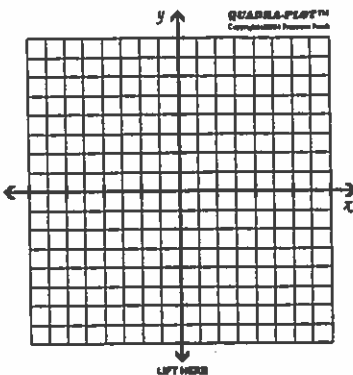


Name \_\_\_\_\_

## 5.1-5.3 QUIZ Review

① Graph  $y = x^2 - 4x + 8$

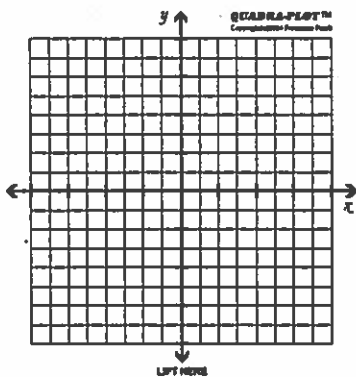
X y



Draw and Label  
the axis of  
symmetry.

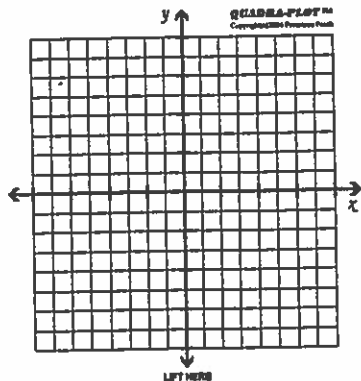
② Graph  $y = -(x+2)^2 - 1$

X y

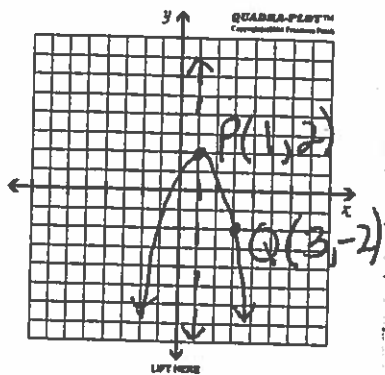


Draw and Label  
the axis of  
symmetry.

③ Graph the parabola with vertex  $(-1, -4)$   
and a point at  $(-4, 3)$ . Label the  
new point



④ Write the equation of the parabola in vertex form.



⑤ Write the equation in vertex form.  
 $y = -3x^2 - 6x - 8$

⑥ Identify the vertex and y-intercept

$$y = -(x-4)^2 - 25$$

⑦ The equation for the motion of a projectile fired straight up at an initial velocity of 64 ft/s is  $h = 64t - 16t^2$ ,  $h$  is the height in feet and  $t$  is time in seconds.

a) How long does it take to reach maximum height?

b) What is the maximum height?