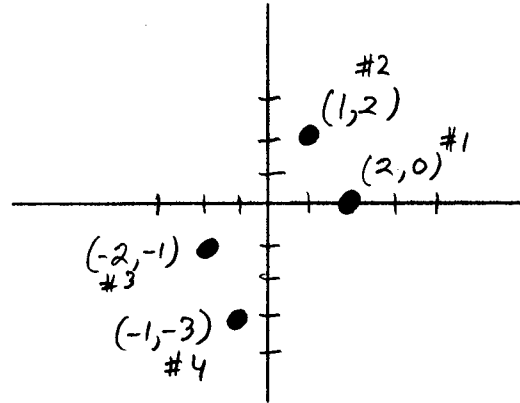


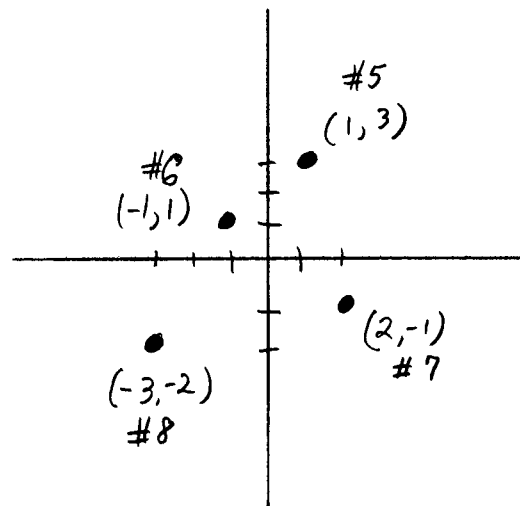
**P-3** Plot each point in the Cartesian plane.

1. (2,0)
2. (1,2)
3. (-2,-1)
4. (-1,-3)



Using the given functions, find the value for  $y$  that corresponds to the given  $x$ -value. Be sure to use the correct order of operations in your calculations. Plot your answers as  $(x,y)$  points.

5.  $x = 1$  with  $y = x + 2$   
 $y = 1 + 2 = 3$  so (1,3)
6.  $x = -1$  with  $y = \frac{3+x}{2}$   
 $y = \frac{3-1}{2} = \frac{2}{2} = 1$  so (-1,1)
7.  $x = 2$  with  $y = \frac{x+4}{x+1} - 3$  so (2,-1)  
 $y = \frac{2+4}{2+1} - 3 = \frac{6}{3} - 3 = 2 - 3 = -1$
8.  $x = -3$  with  $y = 2x^2 + 7x + 1$  so (-3,-2)  
 $y = 2(-3)^2 + 7(-3) + 1$   
 $= 2 \cdot 9 + (-21) + 1$   
 $= 18 - 21 + 1 = -2$



Translate each statement into an algebraic equation. Be sure to state what quantity each letter represents.

9. Tim has two dollars less than Joe.

let  $x$  be Joe's \$  
 $y$  be Tim's \$

$$y = x - 2$$

10. Karen has six dollars less than three times the amount that Sally has.

let  $x$  be Sally's \$  
 $y$  be Karen's \$

$$y = 3x - 6$$