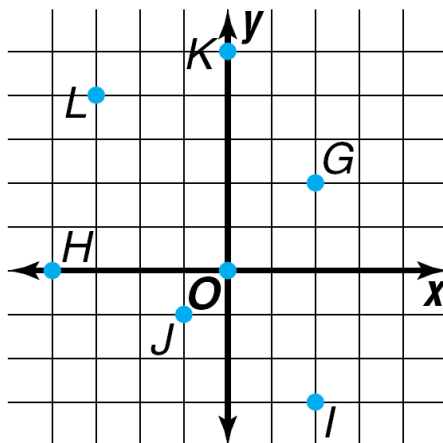


Name: \_\_\_\_\_

## Cartesian System

- 1) If the point  $(a, b)$  is in Quadrant III, identify the axis on which each of the following points lies:
  - (a)  $(a, 0)$
  - (b)  $(0, b)$
  - (c)  $(-b, 0)$
  
- 2) If the point  $(a, b)$  is in Quadrant II, identify the quadrant of each of the following points:
  - (a)  $(-a, b)$
  - (b)  $(b, b)$
  - (c)  $(a, -a)$
  
- 3) If the point  $(a, b)$  is in Quadrant IV, identify the quadrant of each of the following points:
  - (a)  $(b, -b)$
  - (b)  $(-a, -a)$
  - (c)  $(b, a)$
  
- 4) If the point  $(a, b)$  is in Quadrant II, then  $a < 0$  and  $b > 0$ . Identify the quadrant of each of the following points:
  - (a)  $(-a, -b)$
  - (b)  $(b, a)$
  - (c)  $(a, -b)$
  
- 5) If the point  $(a, b)$  is in Quadrant IV, identify the axis on which each of the following points lies:
  - (a)  $(0, -b)$
  - (b)  $(-a, 0)$
  - (c)  $(b, 0)$

6) Write the ordered pair that names each point.



7) Graph each point on a coordinate plane.

1)  $P(5, -1)$

2)  $Q(0, 0)$

3)  $R(1, 2)$

4)  $S(-2, 4)$

5)  $T(-3, -2)$

6)  $U(0, -3)$