

## 4.4 (Pg. 176) Polygons in the Coordinate Plane

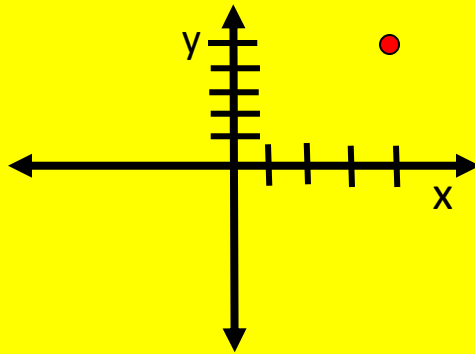


You can use ordered pairs to represent vertices of polygons. To draw a polygon in a coordinate plane, plot and connect the ordered pairs.

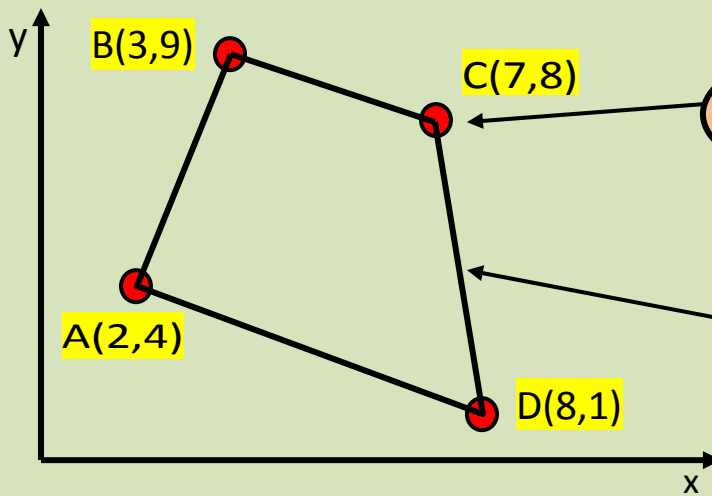


$(x,y)$   $(4,5)$  This means you start at the origin (center of coordinate plane) and move 4 spaces to the right and 5 spaces up.

$(\rightarrow, \uparrow)$



Example: Draw the quadrilateral in a coordinate plane with the vertices of  $A(2,4)$ ,  $B(3,9)$ ,  $C(7,8)$  and  $D(8,1)$ .



Plot and label the vertices.

Connect the points to form the quadrilateral.