

Coordinate Plane

- 1) The sides of a rectangle in the coordinate plane are parallel to the axes. Two of the vertices of the rectangle are $(3, -2)$ and $(4, 7)$. Find coordinates for the other two vertices. Find the area of the rectangle.

- 2) The line through $(1, 6)$ and $(0, 3)$ passes through every quadrant except one. Which one?

- 3) The rectangle ABCD shown at the right has sides that are parallel to the coordinate axes. It is three times as wide as it is tall, and its perimeter is 56 units.
 - a) Find the length and width of ABCD
 - b) Given the information $D = (9, 2)$, find the coordinates for points A, B, and C.