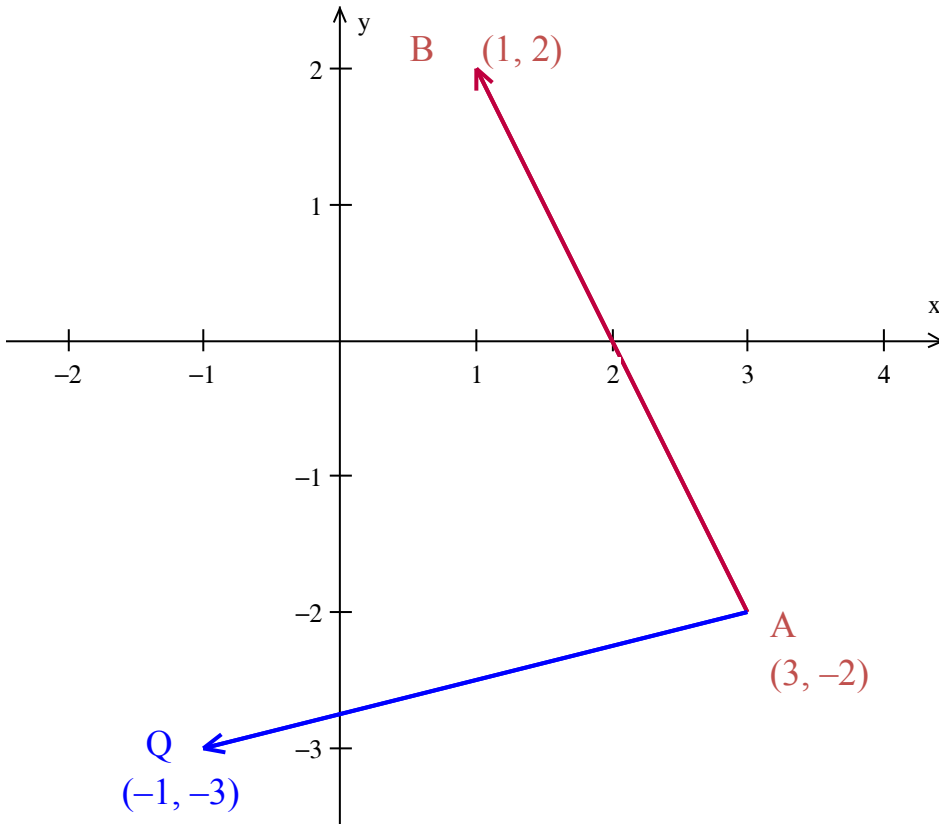


Vectors

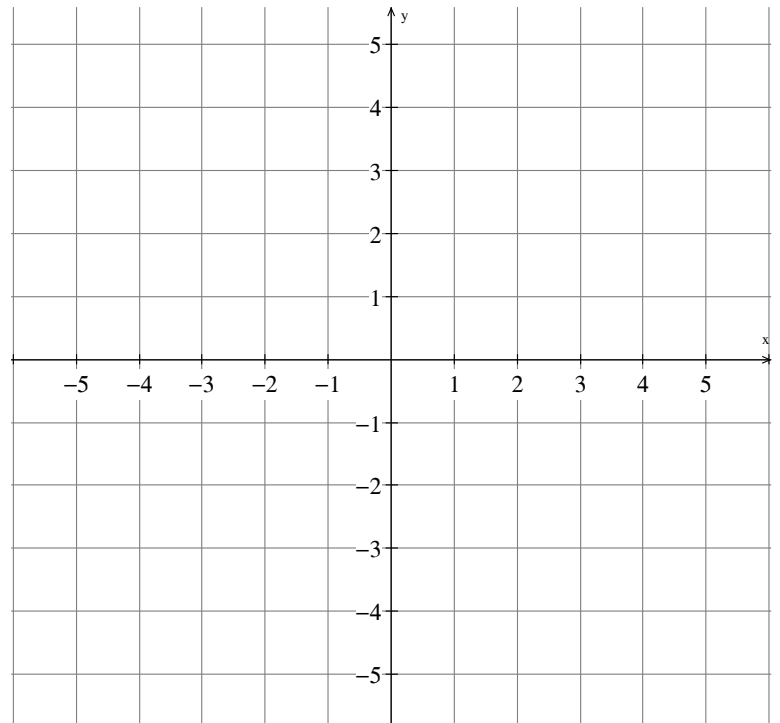
Name _____



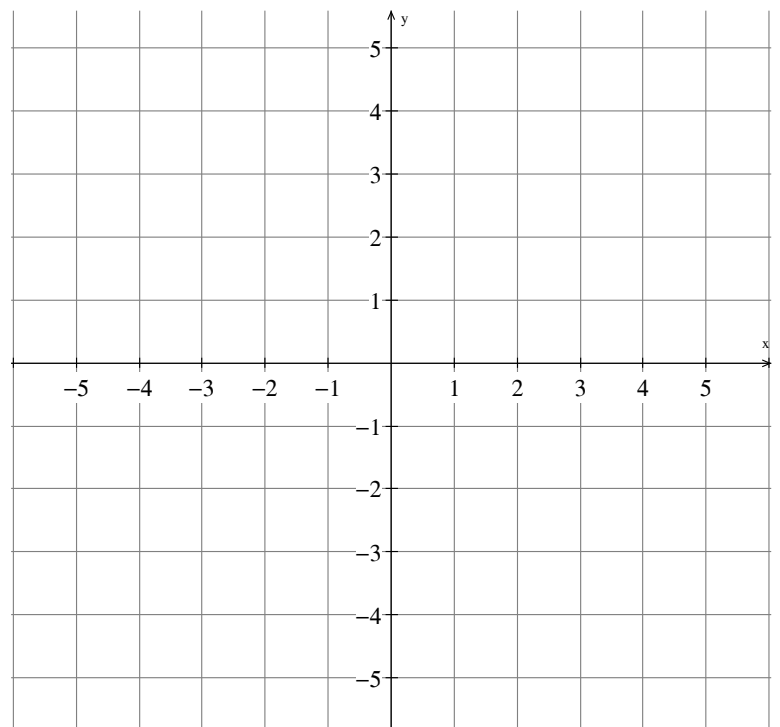
Find the component form and magnitudes for vectors \overline{AB} and \overline{AQ}

Sketch and write the vectors formed by the given points

1) The vector \mathbf{v} which is the line segment \overline{AB} in which point A is (3, 0) and point B is (-5, -4)



2) The vector \mathbf{v} which is the line segment \overline{CD} in which point C is (4, -1) and point D is (-5, 3)



Sketch and add the following vectors. Find all three vector magnitudes.

2) $\mathbf{v} = \langle 2, 1 \rangle$ and $\mathbf{u} = \langle 4, -1 \rangle$



3) $\mathbf{v} = -2i - j$ and $\mathbf{u} = -4i + j$



Vector Components

Write the component form of the vector \mathbf{v} given $|\mathbf{v}| = 5$ and $\theta = 30^\circ$

