Name: _____
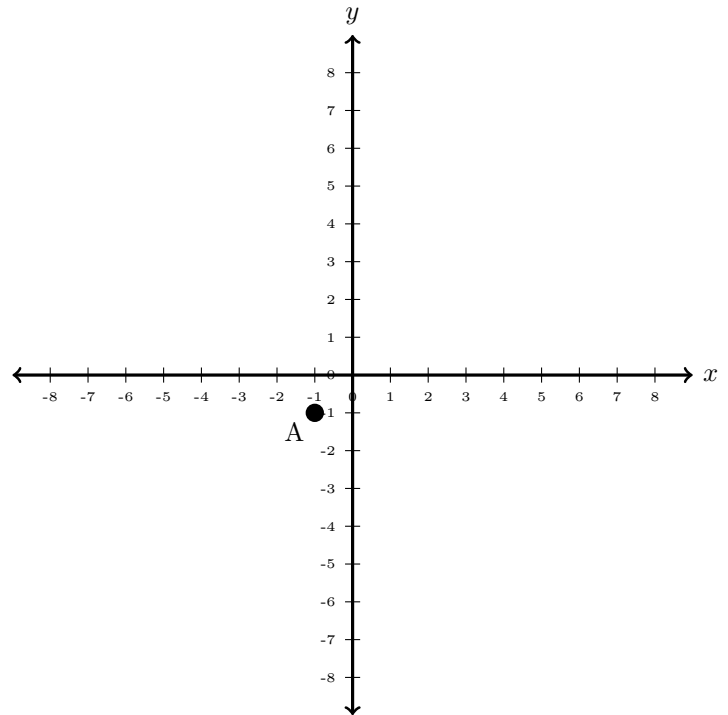
Activity 1.1: Graphs, Points, Distance

1. What are the coordinates of point A?
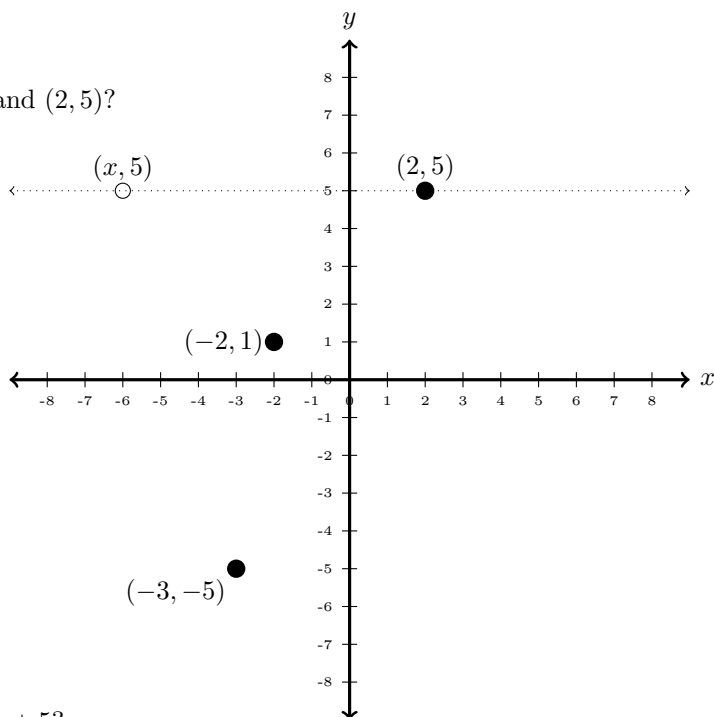
2. Graph the point $(7, 5)$.

3. What is the distance between $(7, 5)$ and A?

4. A pizza delivery company charges an extra \$5 fee to deliver outside a 10 mile radius. If you live 7 miles east and 5 miles north from the pizza delivery company, would they charge you the fee?

Activity 1.2: Equations of lines

1. What is an equation of the line through $(-3, -5)$ and $(2, 5)$?

2. Graph the line $y = 3x + 5$.

3. What is the slope of a line perpendicular to $y = 3x + 5$?

4. The points $(2, 5)$, $(6, 1)$ and $(x, 5)$ form a right triangle with right angle at $(6, 1)$. What is the value of x?

Quiz on 1.1 and 1.2:

1. Give an equation of the line through the points $(0,0)$ and $(2,6)$.

2. If you live at $(10,11)$, do you live more than 14 away from $(0,0)$?