Lesson 18: Distance on the Coordinate Plane

Problem Set

1. Find the length of the line segment with end points $\left(7, 2\right)$ and $\left(-4, 2\right)$, and explain how you arrived at your solution.
2. Sarah and Jamal were learning partners in math class and were working independently. They each started at the point $\left(-2, 5\right)$ and moved $3$ units vertically in the plane. Each student arrived at a different end point. How is this possible? Explain and list the two different end points.
3. The length of a line segment is $13$ units. One end point of the line segment is $\left(-3, 7\right)$. Find four points that could be the other end points of the line segment.