Example

1. Find the point \((x, y)\) in the Cartesian (rectangular) coordinate system which is in the first quadrant and is 35 units away from the \(x\)-axis and 11 units away from the \(y\)-axis.

   **Solution:** Since the point \((x, y)\) is in the first quadrant, the point must be 35 units up from the \(x\)-axis and 11 units to the right of the \(y\)-axis. Thus the \(y\)-coordinate is 35 and the \(x\)-coordinate is 11.

   The answer is: \((11, 35)\)

2. Find the point \((x, y)\) in the Cartesian (rectangular) coordinate system which is in the fourth quadrant and is 35 units away from the \(x\)-axis and 11 units away from the \(y\)-axis.

   **Solution:** The point \((x, y)\) is in the fourth quadrant, so the point must be 35 units down from the \(x\)-axis and 11 units to the right of the \(y\)-axis. Thus the \(y\)-coordinate is -35 and the \(x\)-coordinate is 11.

   The answer is: \((11, -35)\)