Find the other endpoint of the line segment with the given endpoint and midpoint:

5) Endpoint: , Midpoint:

To find an endpoint when given one endpoint and the midpoint, we need to determine the distance from the given endpoint and the midpoint. In this problem the and the distance from from the given endpoint to the midpoint is . To determine the value of in the other endpoint we need to go 19 spaces from the midpoint x which is that is the value in the endpoint we are trying to find. 19 spaces from 10 is 29. That is our x value.

Now we do the same with . and the distance between is 10 spaces. We now must move 10 spaces from the midpoint, which is . Moving 10 spaces from would leave use at . That is our y value.

Our answer is:

6) Endpoint:

Midpoint:

The distance between and is 10 spaces.

If we move another 10 spaces from 4 we are at 14, that is your x value.

The distance from is 4 spaces.

If we move another 4 spaces from 8 we are at 12, that is your y value.

Our answer is