Plotting Coordinate Pairs

To plot ordered pairs, such as (1,2), (3,5), and (4,1), as shown below, you can use the plot function, but the plot.list function might be easier to use.



To make a plot like this, follow these steps:

STEP 1

Copy all of the code in the link on this webpage. Paste it all into an R window.

STEP 2

Туре

plot(list(c(1,2),c(3,5),c(4,1)), add.labels=TRUE)

What you should notice

The ordered pairs (1,2), (3,5) and (4,1) need to be written as list(c(1,2), c(3,5),c(4,1)).

The c is needed so that R knows when each ordered pair starts.

All of the ordered pairs are collected together into something called a list.

Typing add.labels=TRUE causes the ordered pairs to be printed on the graph.

Joining the plotted points with line segments

Type join=TRUE to join the plotted points as in the graph shown below. plot(list(c(1,2),c(3,5),c(4,1)), add.labels=TRUE, join=TRUE)



Plotting on graph paper

Add in grid.lines=TRUE to set up the plot so that it looks like it is plotted on graph paper.

```
plot(list(c(1,2),c(3,5),c(4,1)), add.labels=TRUE, join=TRUE,
grid.lines=TRUE)
```

