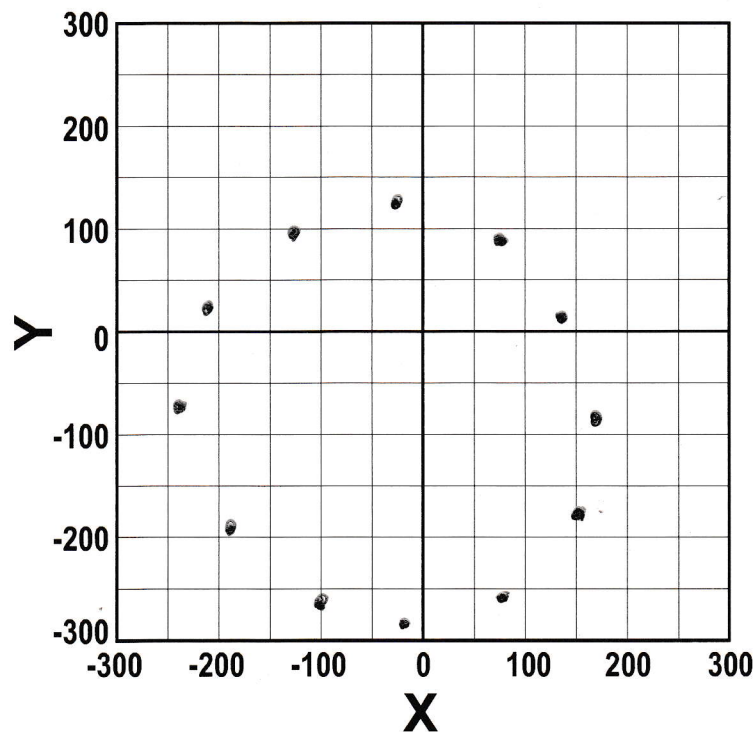


Position the ActivityBot on the compass rose such that the left wheel sits on 270° (W) and the right wheel sits on 90° (E). Loop the USB cable so that it is as far from the compass module as possible. The robot will then be facing 0° (N). Record the X and Y values in the table below:

Left Wheel	Right Wheel	Heading	X	Y
W	E	0	-21	124
300	120	30	-136	99
330	150	60	-204	22
N	S	90	-230	-77
30	210	120	-187	-195
60	240	150	-100	-265
E	W	180	-17	-280
120	300	210	78	-253
150	330	240	151	-174
S	N	270	167	-85
210	30	300	143	11
240	60	330	79	90

Repeat by rotating the bot through the additional eleven angles and recording the data in the spaces provided. Then plot the data as points on the graph below:



Get checked off: _____