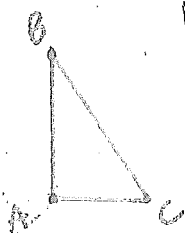
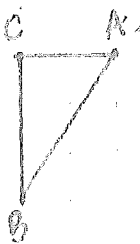


180° rotation



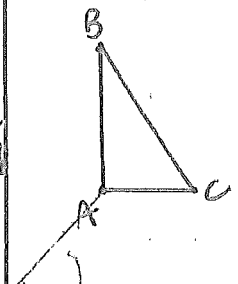
Rotations on a coordinate grid



original	rotation
A (2,2) →	(-2,-2)
B (2,5) →	(-2,-5)
C (4,2) →	(-4,-2)

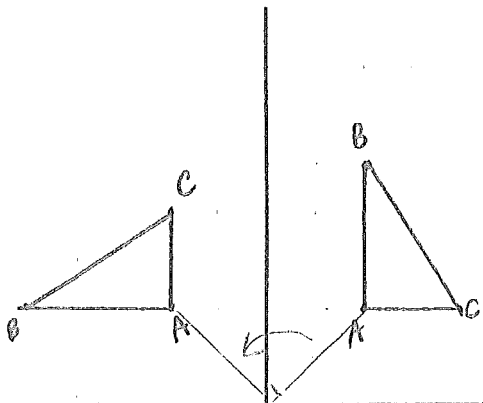
*notice that you can just take the opposite of x and y.

90° clockwise rotation around (0,0)



original	rotation
A (2,2) →	(2,-2)
B (2,5) →	(5,-2)
C (4,2) →	(2,-4)

*switch x and y, then take opposite of y



original	rotation
A (2,2) →	(-2,2)
B (2,5) →	(-5,2)
C (4,2) →	(-2,4)

90° counterclockwise rotation around (0,0)

*switch x and y, then take opposite of x