

Rotations

① $\triangle CAT$ has vertices $C(1,1)$ $A(2,5)$ $T(3,4)$

Graph $\triangle CAT$ & $\triangle C'A'T'$ after a clockwise rotation of 180° about the origin.

State the coordinates of the vertices of $\triangle C'A'T'$.

② $\triangle DOG$ has vertices $D(0,2)$ $O(4,3)$ $G(5,1)$

Graph $\triangle DOG$ & $\triangle D'O'G'$ after a counter clockwise rotation of 90° about the origin.

State the coordinates of the vertices of $\triangle D'O'G'$.

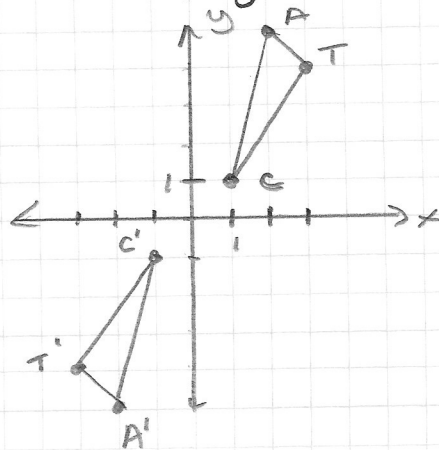
Answers:

① 180° Clockwise : $(x,y) \rightarrow (-x,-y)$

$C'(-1,-1)$

$A'(-2,-5)$

$T'(-3,-4)$



② 90° counter clockwise is 270° Clockwise : $(x,y) \rightarrow (-y,x)$

$D'(-2,0)$

$O'(-3,4)$

$G'(-1,5)$

