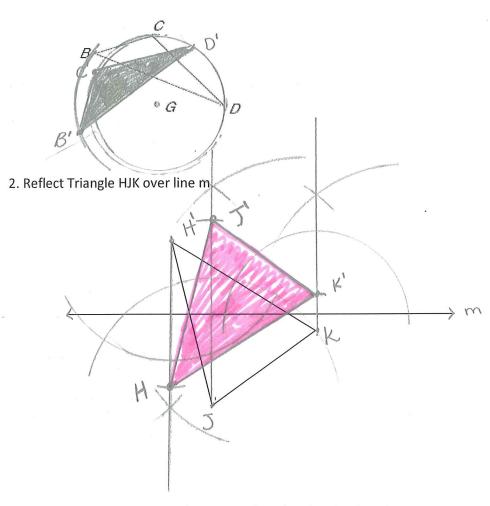
Key

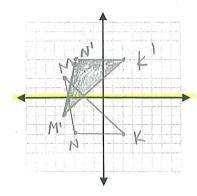
9.1-9.3 Reflections/Rotations/Translations- Review

ROTATIONS ON A PLANE

 $\underline{1}$ Rotate the triangle 60° counterclockwise about point G



3. Reflect triangle KMN over the x-axis. K(2, -4), M(-4,2), N(-3,-4).



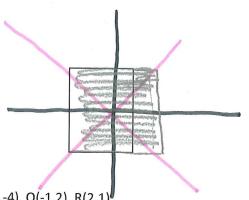
4.Lines of symmetry:

How many lines of symmetry does a square have?

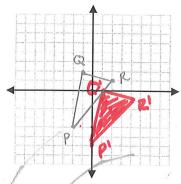
4

Does it have a point of symmetry?

425

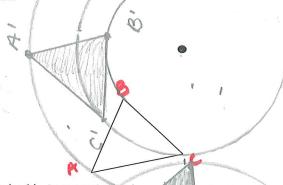


5: Translate triangle PQR down 2 units and right 2 units. P(-2,-4), Q(-1,2), R(2,1).



 $(x,y) \longrightarrow (x+2, y+2)$

6: Rotate triangle ABC 50° cw (clockwise) around point F.



7: Rotate triangle DEF 120° ccw (counter clock wise)a round point G.



8Ex: Rotate triangle FGH 90° ccw around the origin. F(2,2), G(4,1), H(5,4).

