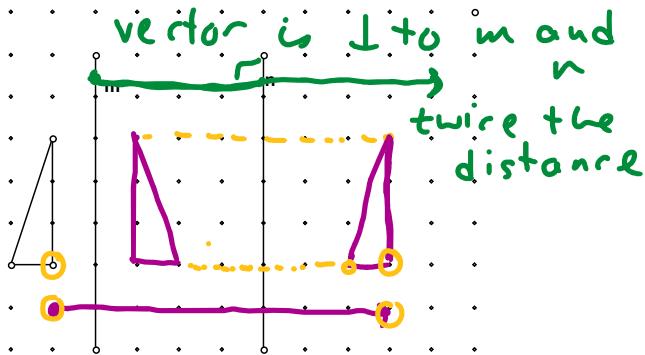


2-step transformations:

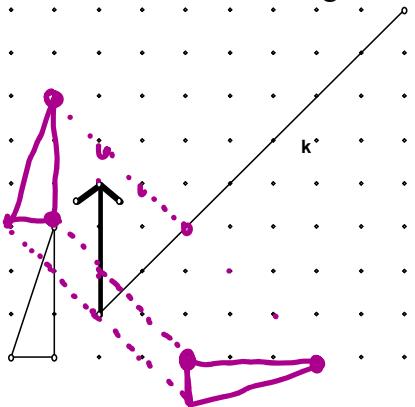
1. Show the position of the triangle if you reflect first in m and then in n .



This same thing can be done in one step by a translation. Describe that translation:

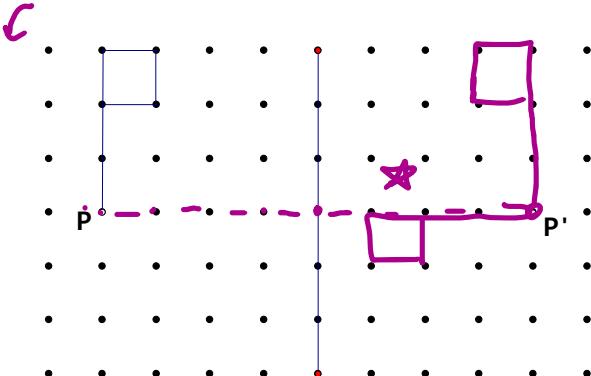
translate right 8
" by vector
 $\langle 8, 0 \rangle$

3. Show the result of first translating along the vector, and then reflecting in the line k :



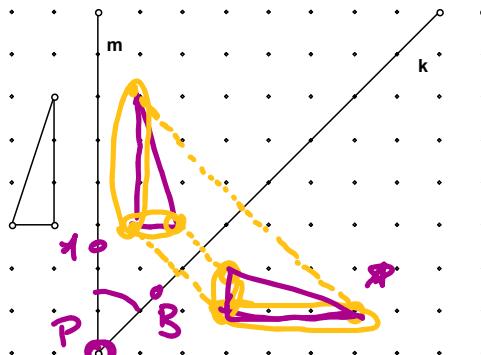
Please note that P' is the image of the point P after the first transformation

- 5.a. Show the final image of the flag after :
first reflecting across the line, and then rotating 90° around point P'



name: _____

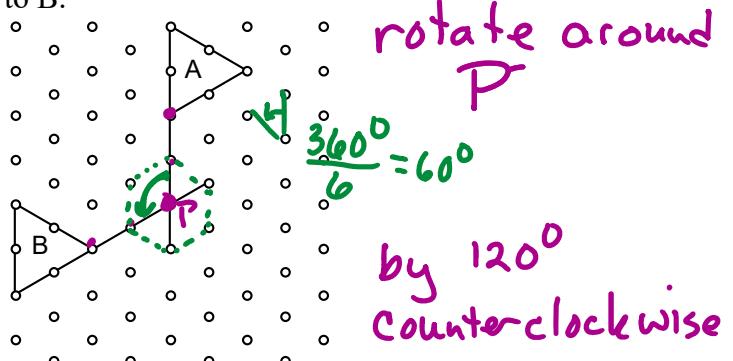
2. Show the position of the triangle if you reflect first in m and then in k :



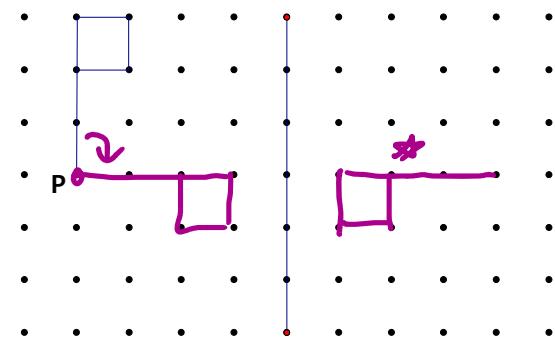
This same thing can be done by a rotation.
Estimate the rotation point and angle:

rotation around P
(where the 2 lines intersect)
by 90° clockwise
($2 \times \angle APR$)

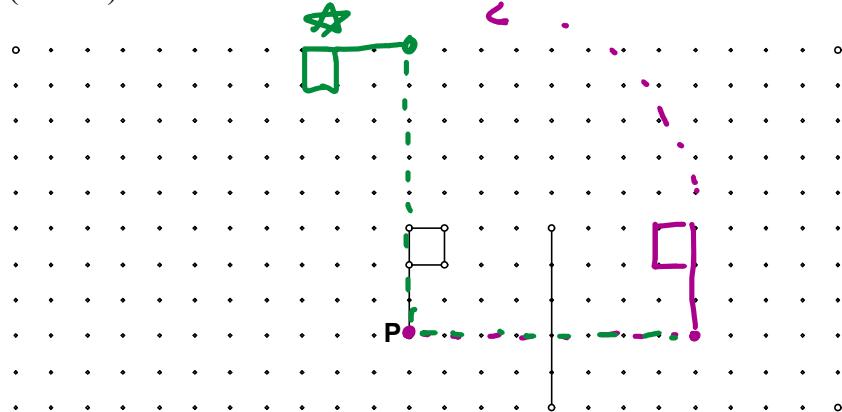
4. Completely describe the rigid motion (reflection, rotation or translation) that moves A to B:



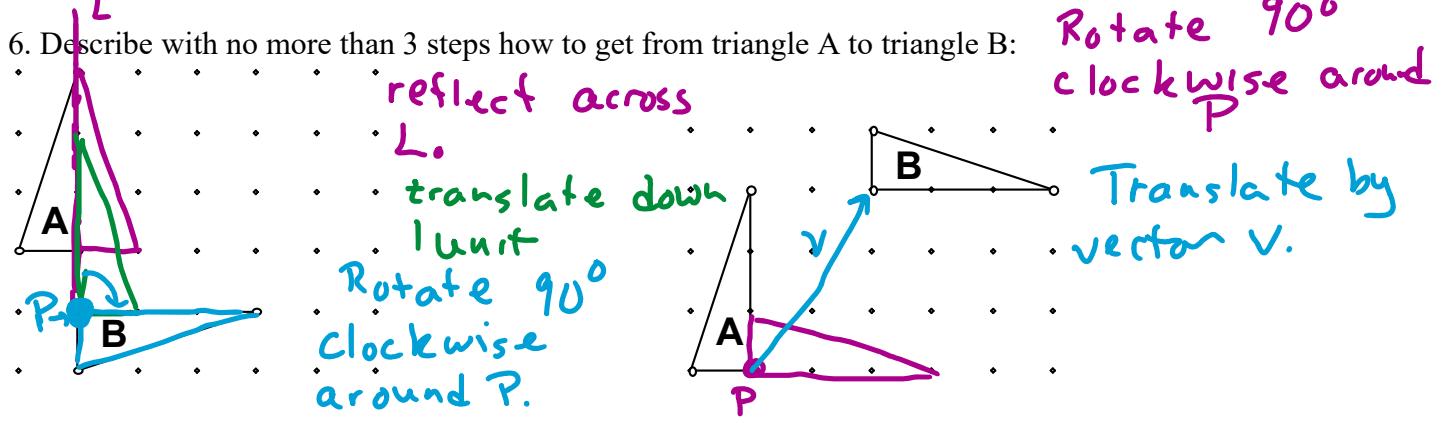
- 5.b. Show the final image of the flag after first rotating -90° about the point P , and then reflecting across the line



5c. Show the final image of the flag after first reflecting across the line, and then rotating 90° around point P (not P').



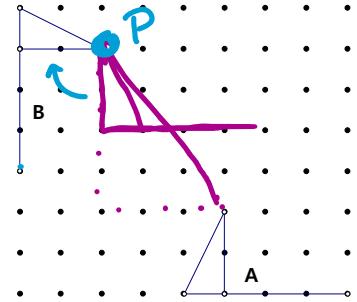
6. Describe with no more than 3 steps how to get from triangle A to triangle B:



Rotate 90°
clockwise around
P

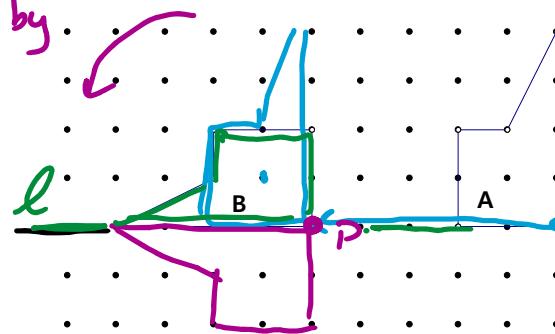
Translate by
vector v.

7. Describe with no more than 3 steps how to get from shape A to shape B in each problem:



Translate by
 $\langle -3, 4 \rangle$.

Rotate
 -90°
around
P



Translate left 5
Rotate 90° around P
reflect across l

translate by vector v
reflect across l.

