G-CO.5: I can demonstrate and draw transformations. I can find a sequence of transformations that will carry a shape onto another

THE YAKIS 4 y=x intersect of 45° 20. $\triangle DEF$ with vertices D(1,2), E(3,4), and

its image is reflected across the y-axis, and then

its image is reflected across the line y = x.

Reflect + Reflection = Red in f 2 x The Angle

Which single transformation moves the triangle of from its starting position to its final position? Entertails

A. rotation by 90° about the origin

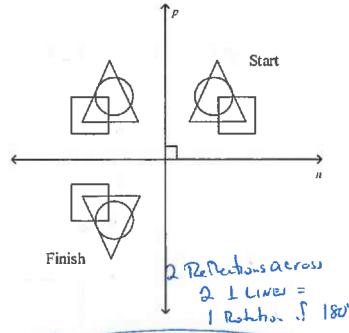
B. rotation by 270° about the origin

C. reflection across the x-axis

D. reflection across the y-axis

Therefore ANSWER B 11 Corner

21. Ann wants to create a design to decorate her Geometry binder. She reflects part of the design across line p and then reflects the image across line n. Describe a single transformation that moves the part of the design from its starting position to its final position.



A. rotation of 180° about the origin

- B. rotation of 90° about the origin
- C. translation along the line p = n
- D. reflection across the line p = n

G-CO.6: I can decide if two shapes are congruent because of the rigid motions between the two figures. I can investigate rigid motions and generalize their characteristics as preserving congruence. I can find a sequence of transformations that will carry a shape onto another.

22. Rhombus PQRS, with vertex coordinates P(-6, 1), Q(-5, 4), R(-2, 5), and S(-3, 2), was reflected over the line x = -1.

Liam states that the reflection of *PQRS* must also be a rhombus because a reflection is a congruence transformation. Explain what Liam means by this statement.

Answer:

(A REFLECTION)

IT IS A RIGHT MOTION

WHICH MEANS THE PILE-IMAGE

AND THE TMAGE HAVE THE SAME

SIZE & SAME SHAPE. THE IMAGE

MUST ALLO BY A RHOMBUS.



CLOCKWISE

DIRECTION

