Check

- **3.** Describe the rotational symmetry and line symmetry of each shape.
 - a) a parallelogram
- b) a rhombus
- c) an isosceles trapezoid
- d) a kite









5. Describe the symmetry of each face of a die. Copy each face. Mark the centre of rotation and the lines of symmetry.







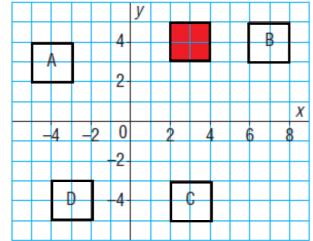






Apr 25-8:43 PM

6. Look at the squares below.

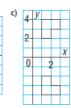


Which of squares A, B, C, and D are related to the red square:

- a) by rotational symmetry about the origin?
- b) by line symmetry?

7. For each diagram, determine whether the two polygons are related by line symmetry, by rotational symmetry about the origin, or by both.

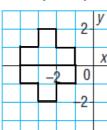




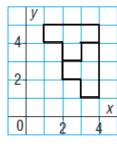
d) y x -2 0 x

8. For each diagram, determine whether the two octagons are related by line symmetry, by rotational symmetry, by both types of symmetry, or by neither.



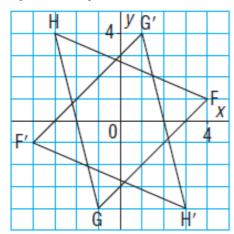


b)



Apr 25-8:49 PM

9. Triangle F'G'H' is the image of Δ FGH after a rotation about the origin. Identify any symmetry.



11. Copy each shape on grid paper.

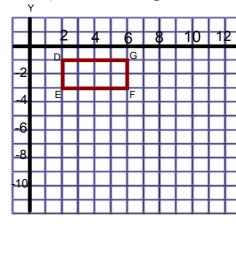
a) 6 units up

- Draw the image after the translation given.
- · Label each vertex with its coordinates.
- Does each diagram have line and rotational symmetry?

If your answer is yes, describe the symmetry.

If your answer is no, describe how you know.

b) 4 units right

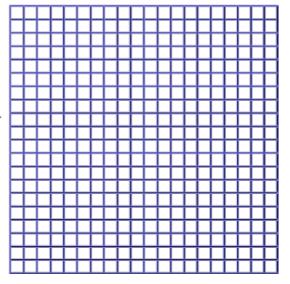


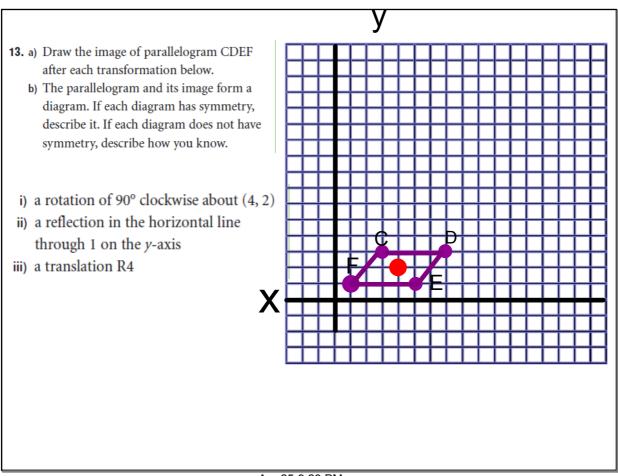
Apr 25-8:59 PM

12. Assessment Focus

- a) On a grid, draw \triangle CDE with vertices C(2, 3), D(-2, -1), and E(3, -2).
- b) Draw the translation image $\Delta C'D'E'$ after the translation R1, U3.
- c) Label all the vertices with their ordered pairs.
- d) Explain why the translation does not result in line or rotational symmetry.
- e) Find a translation that does result in one type of symmetry. Draw the image. How do you know the diagram has symmetry?

Show your work.





Apr 25-9:23 PM