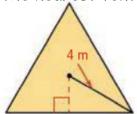
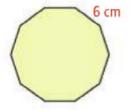
1. Find the area and perimeter to the nearest tenth.

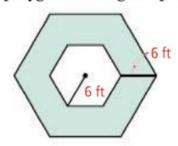


Find area to nearest tenth.

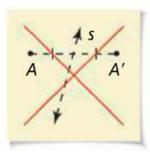




3 The polygons are regular polygons. Find the area of the shaded region.



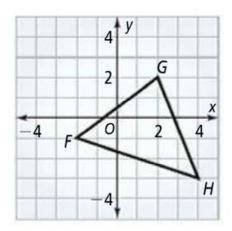
- 4. Vocabulary What is the relationship between a line of reflection and a segment joining corresponding points of the preimage and image?
- **5. Error Analysis** A classmate sketched $R_s(A) = A'$ as shown in the diagram.
 - a. Explain your classmate's error.



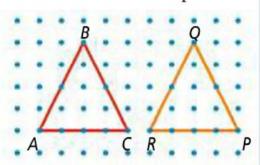
35. Reasoning When you reflect a figure across a line, does every point on the preimage move the same distance? Explain.

Use the graph of $\triangle FGH$.

- **1.** What are the coordinates of $R_{v-axis}(H)$?
- **2.** What are the coordinates of $R_{x=3}(G)$?
- **3.** Graph and label $R_{y=4}(\triangle FGH)$.



- 4. Vocabulary What is true about a transformation that is not a rigid motion? Include a sketch of an example.
- **⑤** 5. Error Analysis Your friend says the transformation $\triangle ABC \rightarrow \triangle PQR$ is a translation. Explain and correct her error.

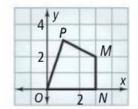


- **22. Think About a Plan** $\triangle MUG$ has coordinates M(2, -4), U(6, 6), and G(7, 2). A translation maps point M to M'(-3, 6). What are the coordinates of U' and G' for this translation?
 - How can you use a graph to help you visualize the problem?
 - How can you find a rule that describes the translation?
- **28. Reasoning** If $T_{<5, 7>}(\triangle MNO) = \triangle M'N'O'$, what translation rule maps $\triangle M'N'O'$ onto $\triangle MNO$?

Geometry Sem 2 Week 12 Friday Warm-up



Copy the graph at the right. On the same set of axes, graph $(T_{<-4,3>} \circ R_{x\text{-axis}})(MNOP)$ and $(R_{x\text{-axis}} \circ T_{<-4,3>})(MNOP)$.



- a. Does order matter for this composition of transformations? Explain.
- **b.** Make a conjecture about whether composition of reflections and translations is commutative. Explain your reasoning.