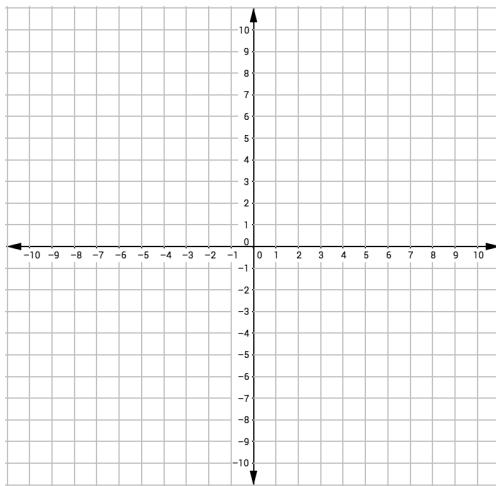


Name _____

Date _____

Introduction to Geometry
Introduction to Coordinate Geometry
Independent Practice

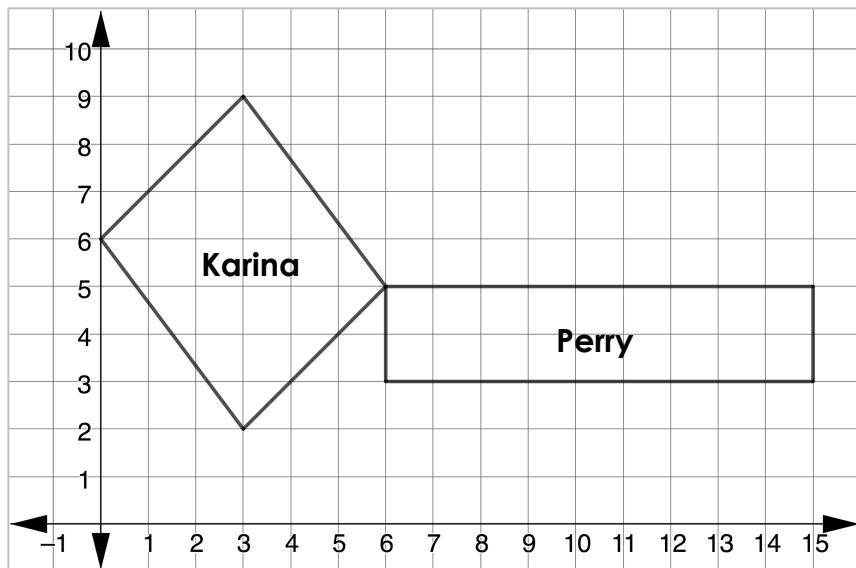
1. Given $R(7, -1)$, $A(3, -6)$, $B(-3, -6)$, $E(-5, 4)$, plot the points and trace the figure.



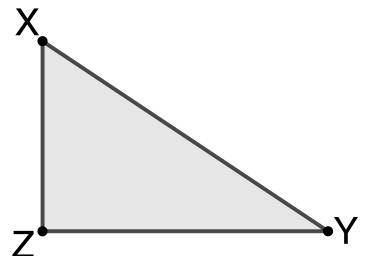
Part A: Determine the lengths of each side (round to the nearest hundredth).

Part B: Determine the perimeter.

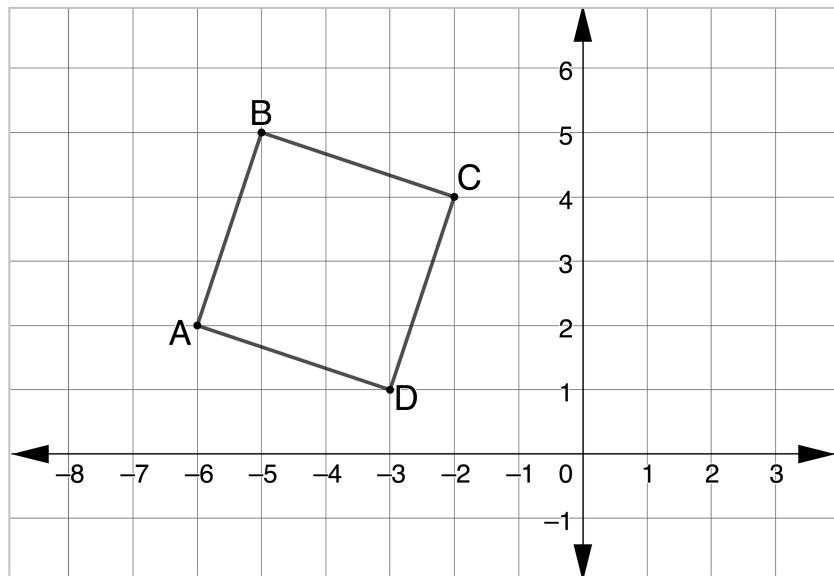
2. Karina and Perry are cleaning up litter in the park for community service hours. Karina and Perry both claim they have covered the greatest area. Who is correct? Justify your answer using mathematical reasoning.



3. $\triangle XYZ$ with vertices $X(1,5)$ and $Z(1,1)$ has an area of 10 units^2 . What are the coordinates of the third vertex?



4. Consider the diagram of quadrilateral $ABCD$.



Part A: Prove that $\overline{AB} \perp \overline{AD}$.

Part B: Prove that $\overline{AD} \parallel \overline{BC}$.

5. The local hardware store sells fencing for \$1.30 per yard. If each unit on the grid represents 25 yards, how much will it cost to fence in the plot of land represented by polygon $MNOP$?

