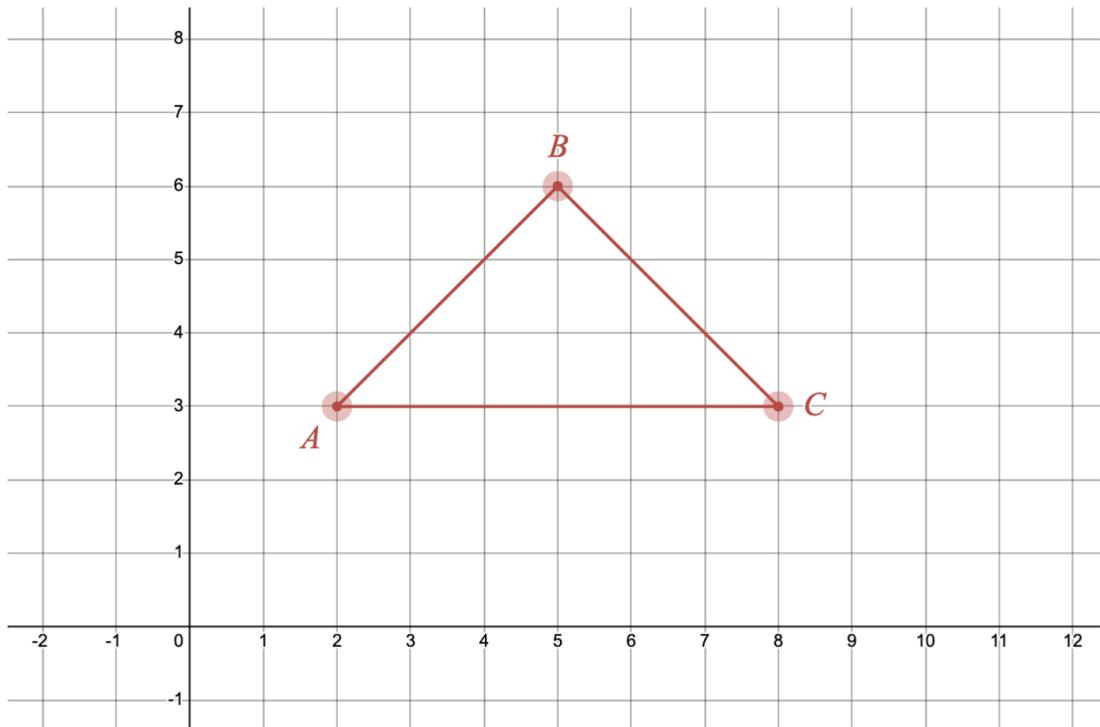


M154: Coordinate Geometry Post-Badge Task

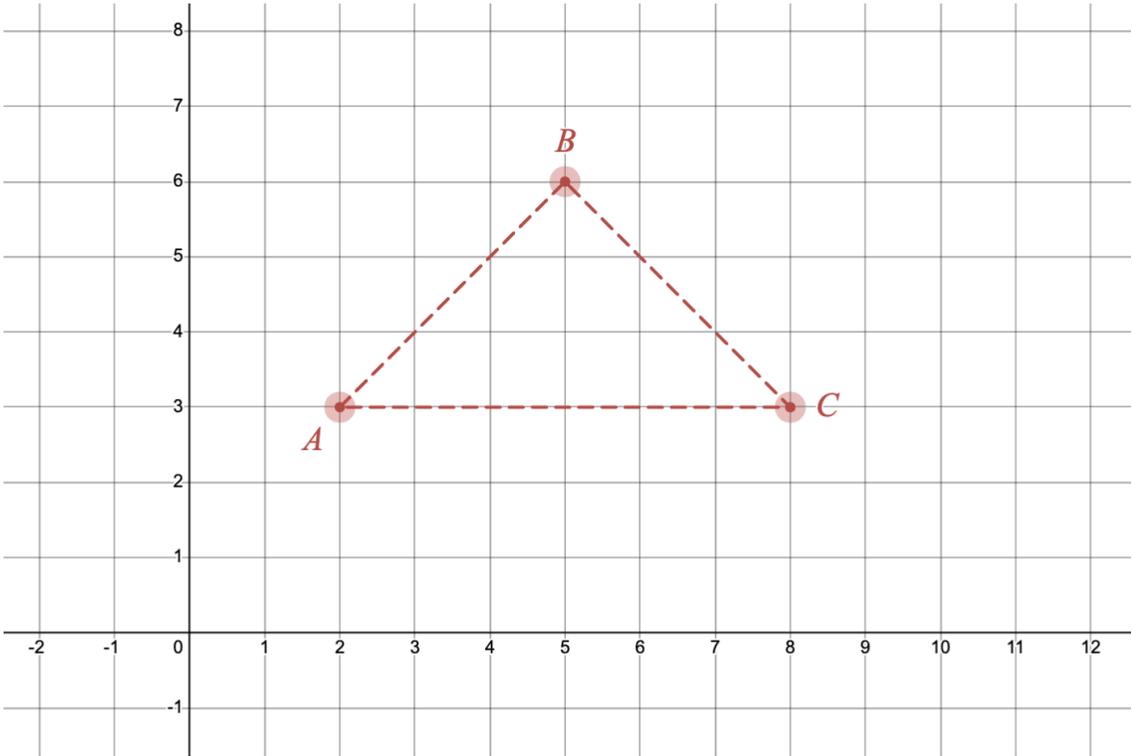
Reflecting on Badge Learning

Now that you have learned more about coordinate geometry, respond to the questions that follow. These are the same questions you responded to before the start of this badge.

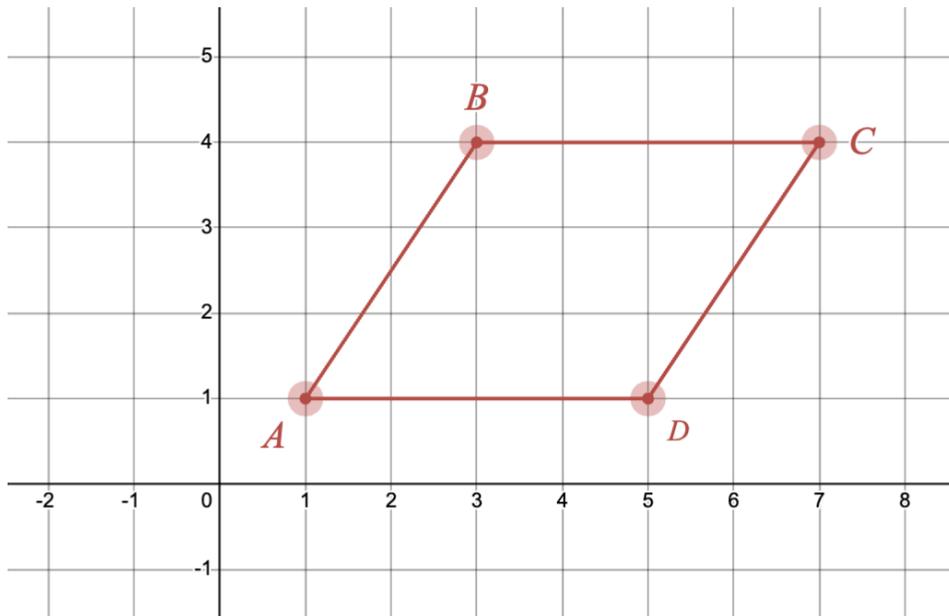
QUESTION 1 Determine the area and perimeter of Triangle ABC. Show the calculations that support your answers.



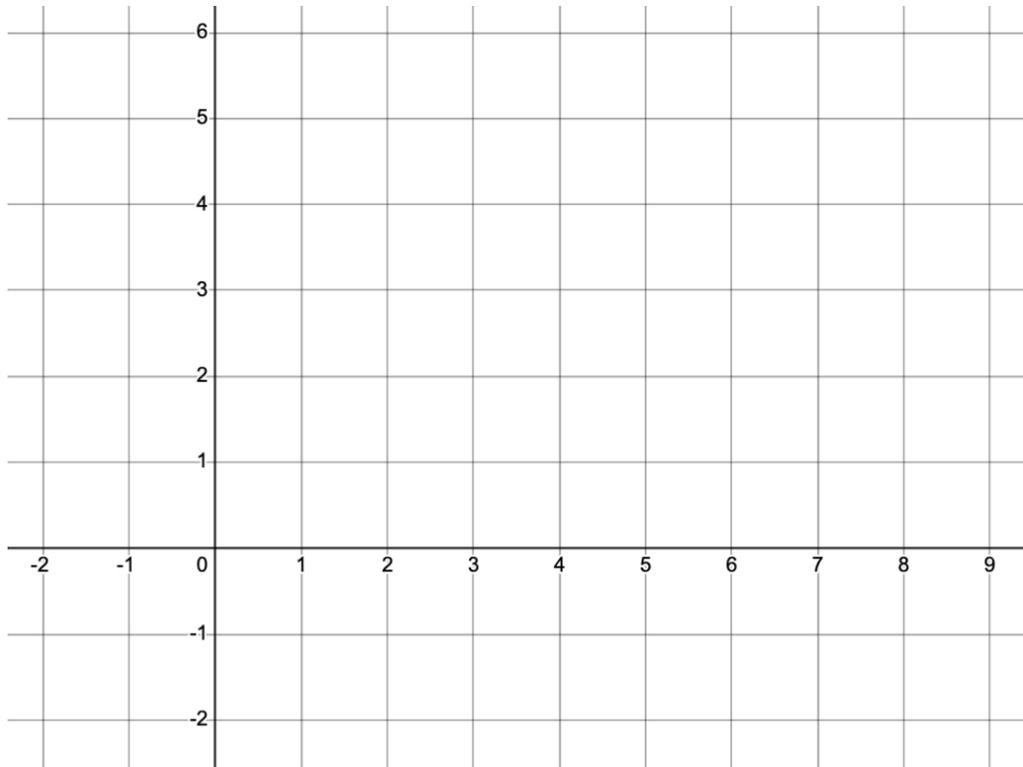
QUESTION 2 Where could you place Point P so that together with points A, B, and C the resulting figure is a parallelogram?



QUESTION 3 Amber and Nolan are discussing the figure below. Amber says that figure ABCD is a rhombus. Nolan believes it is not a rhombus. Choose whether you will take the perspective of Amber or Nolan. If you choose to be Amber, you will explain to Nolan why you are certain that the figure is a rhombus. If you choose to be Nolan, you will help Amber understand why the figure is not a rhombus. Have fun!



QUESTION 4 Figure ABCD is defined by the points A(0,0), B(3,4), C(8,4), and D(5,0). Which labels—parallelogram, rectangle, rhombus, square—apply to figure ABCD? Give a coordinate proof to support your claim.



QUESTION 5 What else did you learn that was not reflected in Questions 1-4?



QUESTION 6 Compare your answers to these questions now to your answers from the earlier attempt. What do you notice about your progress?

