

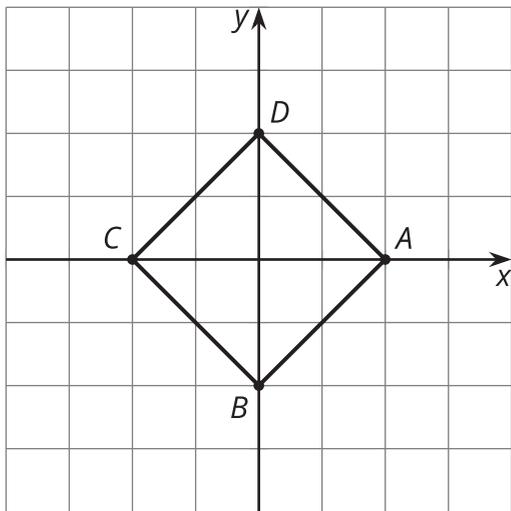
Unit 6 Lesson 14: Coordinate Proof

1 Which One Doesn't Belong: Coordinate Quadrilaterals (Warm up)

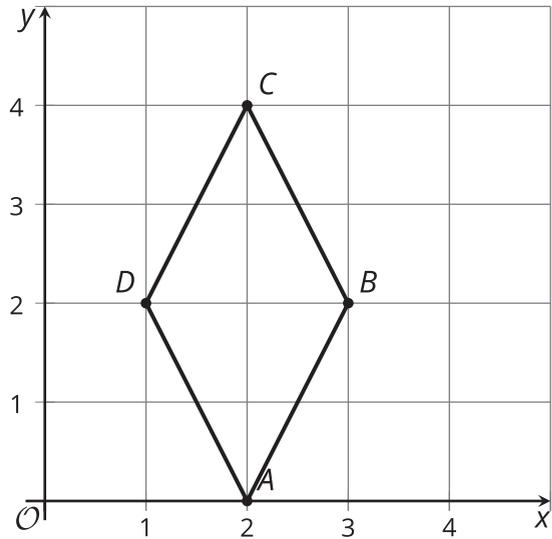
Student Task Statement

Which one doesn't belong?

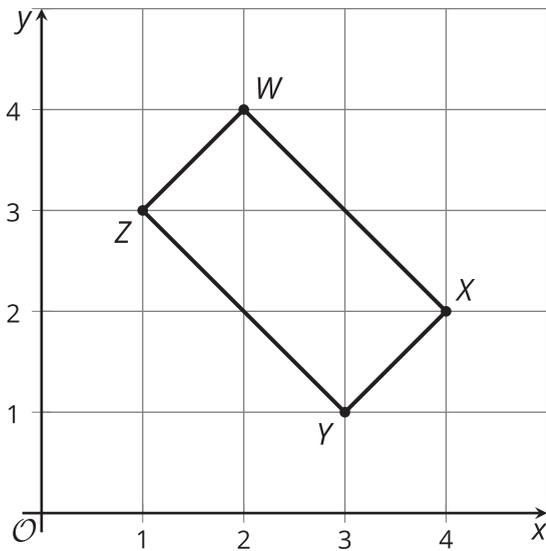
A



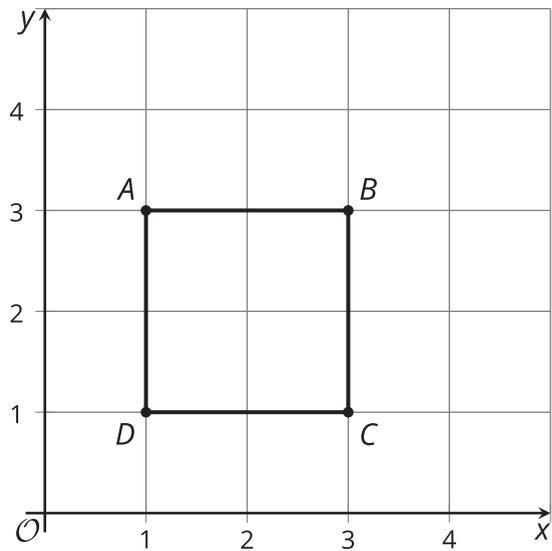
B



C



D



2 Name This Quadrilateral

Student Task Statement

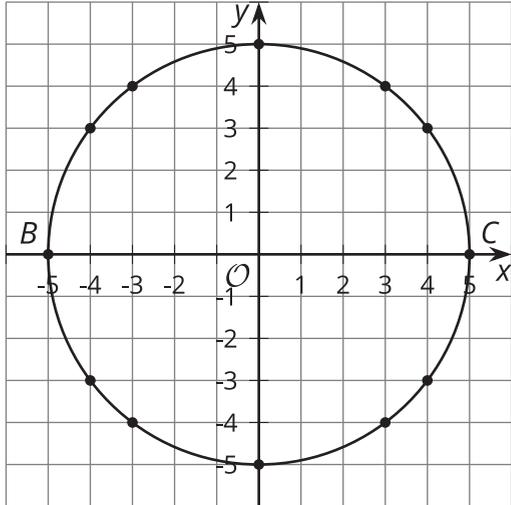
A quadrilateral has vertices $(0, 0)$, $(4, 3)$, $(13, -9)$, and $(9, -12)$.

1. What type of quadrilateral is it? Explain or show your reasoning.
2. Find the perimeter of this quadrilateral.
3. Find the area of this quadrilateral.

3 Circular Logic

Student Task Statement

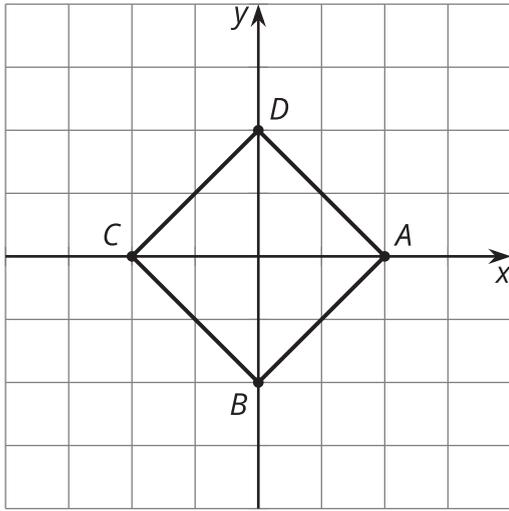
The image shows a circle with several points plotted on the circle.



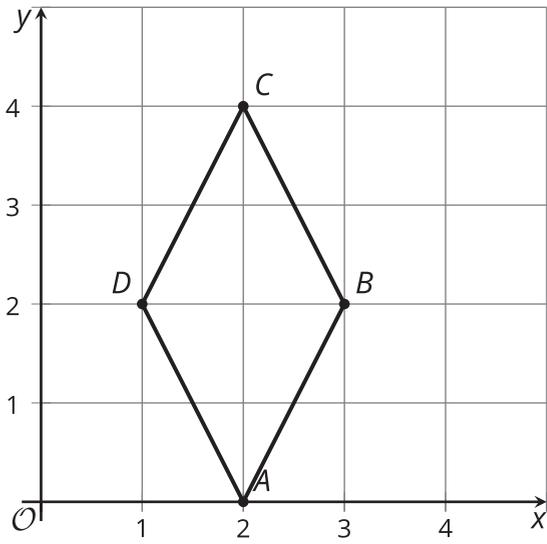
1. What kind of segment is BC in reference to the circle?
2. Choose one of the plotted points on the circle and call it D . Each student in the group should choose a different point. Draw segments BD and DC . What does the measure of angle BDC appear to be?
3. Calculate the slopes of segments BD and DC . What do your results tell you?
4. Compare your results to those of others in your group. What did they find?
5. Based on your group's results, write a conjecture that captures what you are seeing.

Images for Activity Synthesis

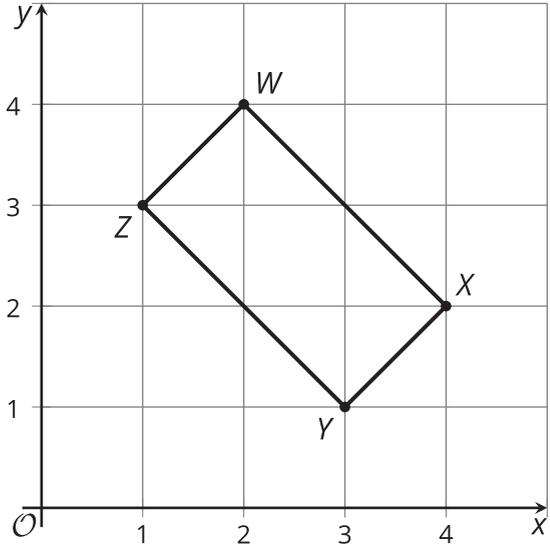
A



B



c



D

