

1.3 What are the different classifications of quadrilaterals found in geometry?

1.4 Make a sketch and list the characteristics of each quadrilateral.

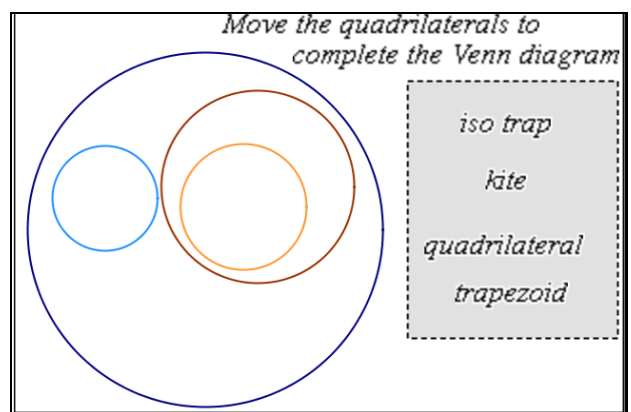
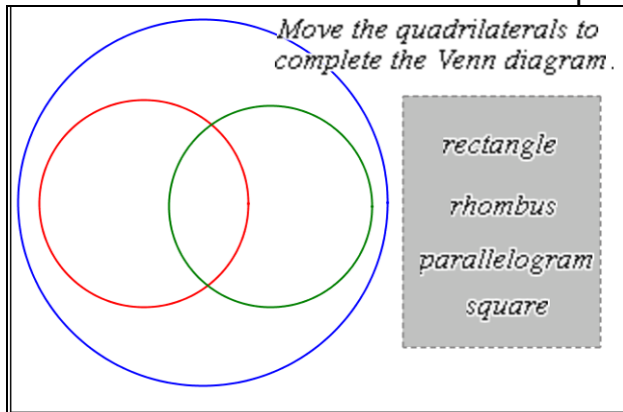
Sketch



Characteristics

1.4 Make a sketch and list the characteristics of each quadrilateral. (continued)

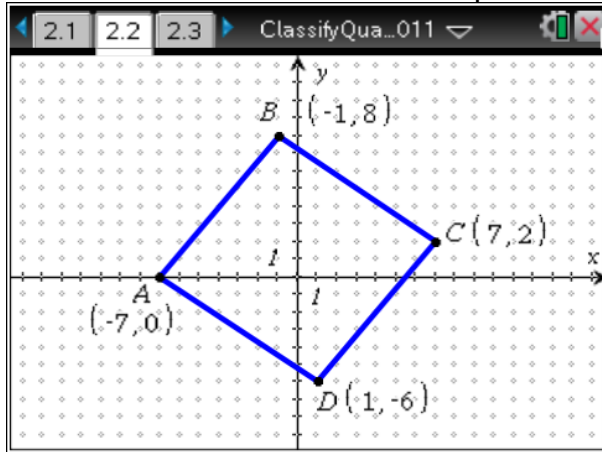
Sketch	Characteristics

1.5 – 1.6 Complete the Venn diagrams to represent the relationships between different classifications of quadrilaterals.

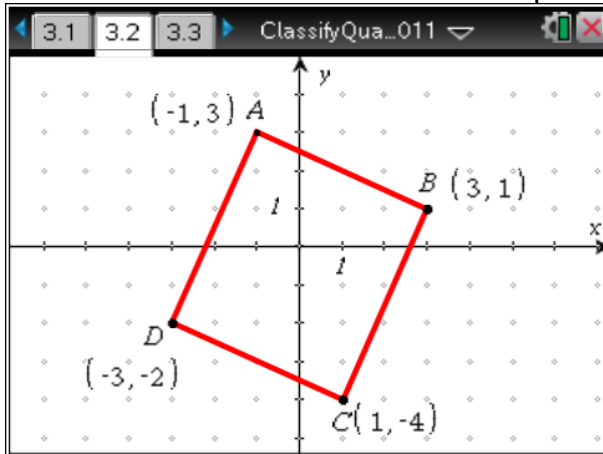


For each problem you may want to use the measurement capabilities of the TI-NSPIRE.
 Measurement will help you measure the length of a segment, the slope, or angle
 Points & Lines will help you draw in diagonals

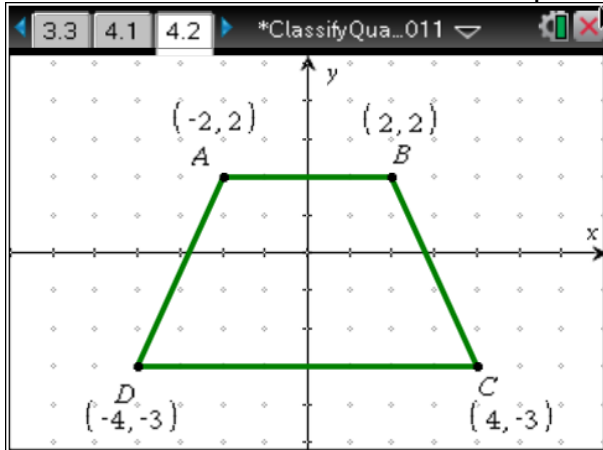
2.2 What is the classification of the quadrilateral? Justify your answer.



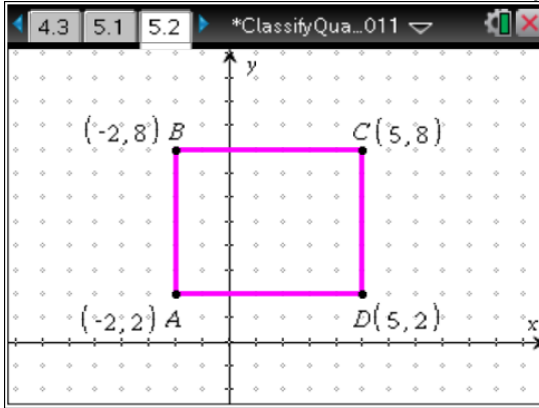
3.2 What is the best classification of the quadrilateral? Justify your answer.



4.2 What is the best classification of the quadrilateral? Justify your answer.

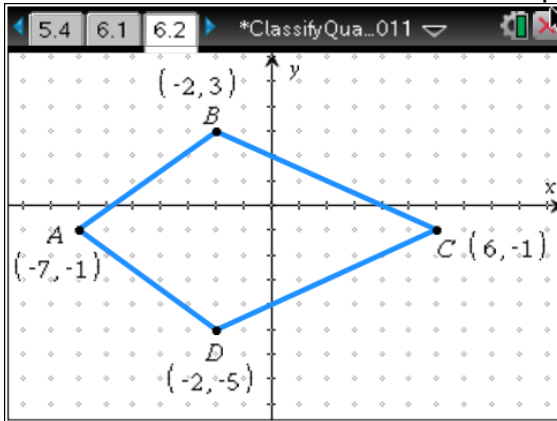


5.2 What is the best classification of the quadrilateral? Justify your answer.



5.4 Because the figure is a _____, what do you know about the diagonals?
Justify your answer using measurements from ABCD.

6.2 What is the best classification of the quadrilateral? Justify your answer.

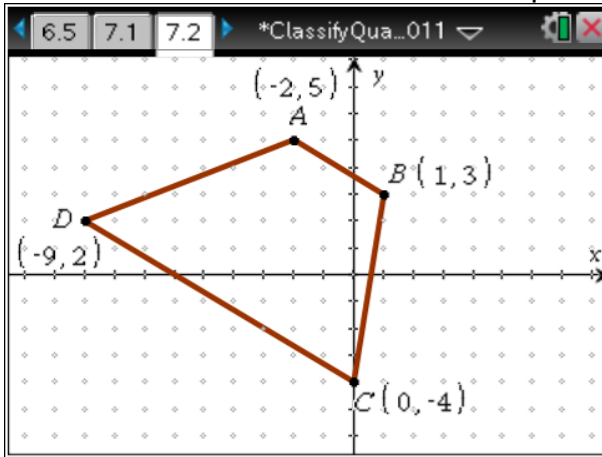


6.4 Measure each angle in the quadrilateral. Which angle pairs have a special relationship? Explain.

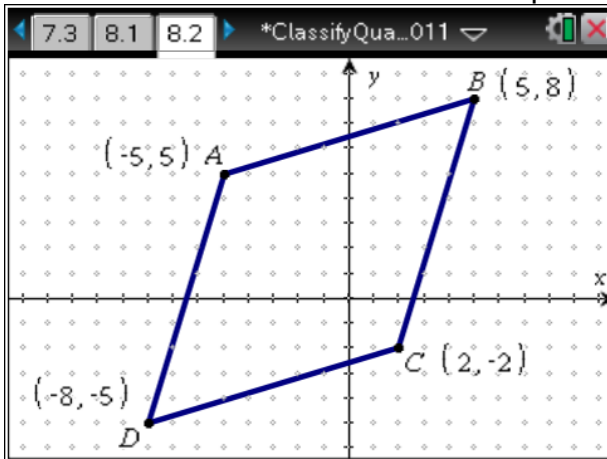
$m\angle A =$ _____ $m\angle B =$ _____ $m\angle C =$ _____ $m\angle D =$ _____

6.5 For this quadrilateral draw in the diagonals. What do you know about the intersection of the diagonals? Justify your answer.

7.2 What is the best classification of the pictured quadrilateral? Justify your answer.



8.2 What is the best classification of the pictured quadrilateral? Justify your answer.



8.4 Draw in the diagonals for this quadrilateral.
Press **menu** Points & Lines then **5** Segment

What do you know about the intersection of the diagonals? Support with measurements or calculations.

What do you know about the length of the diagonals? Support with measurements or calculations.

What do you know about the angles created by the diagonals? Support with measurements or calculations.

What is the classification?
Student Worksheet

Name: _____
Period: _____

- 9.2 All sides are congruent.
Diagonals are perpendicular.

What is the classification?
Make a sketch with the appropriate labels.

- 9.3 Exactly two pairs of angles are supplementary.
Diagonals bisect each other.

What is the classification?
Make a sketch with the appropriate labels.

- 10.1 Make up a description for a different quadrilateral that was not described in 9.2 or 9.3. Make sure to provide an answer with a sketch.