$\qquad$ Date $\qquad$ Period $\qquad$

## Discovery: Kites and Trapezoids



1. Verify that this is an isosceles trapezoid by labeling the sides with their lengths.
2. What are the lengths of the diagonals?
$\qquad$
and
3. What are the measurements of the interior angles?
$\qquad$ , $\qquad$ _,
$\qquad$
4. Verify that this is a kite by labeling the sides with their lengths.
5. What are the lengths of the diagonals?
$\qquad$ and $\qquad$
6. What are the measurements of the interior angles?
$\qquad$ , $\qquad$ ,
$\qquad$ Date $\qquad$ Period $\qquad$

7. Verify that this is an isosceles trapezoid by labeling the sides with their lengths.
8. What are the lengths of the diagonals?
$\qquad$ and $\qquad$
9. What are the measurements of the interior angles?
$\qquad$ , $\qquad$ -
$\qquad$
$\qquad$ Date $\qquad$ Period $\qquad$

10. Verify that this is a kite by labeling the sides with their lengths.
11. What are the lengths of the diagonals?
$\qquad$ and $\qquad$
12. What are the measurements of the interior angles?
$\qquad$ , $\qquad$ _,
$\qquad$
13. Verify that this is an isosceles trapezoid by labeling the sides with their lengths.
14. What are the lengths of the diagonals?
$\qquad$ and $\qquad$
15. What are the measurements of the interior angles?
$\qquad$ , $\qquad$ ,
$\qquad$
$\qquad$

## Draw Conclusions...

1. What do you notice about the diagonals of the trapezoids?
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$\qquad$
$\qquad$
2. What do you notice about the angles of the trapezoids?
$\qquad$
$\qquad$
3. What do you notice about the diagonals of the kites?
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$\qquad$
$\qquad$
4. What do you notice about the angles of the kites?
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$\qquad$
