

**Algebra 2**  
**Unit: Geometry**  
**Section: Geometry of Quadrilaterals**

**Multiple Choice: Trapezoids and Kites**

Directions: Answer the following.

- Which of the following is true for all trapezoids?
  - The base angles are congruent.
  - The diagonals are perpendicular.
  - They have exactly one pair of parallel sides.
  - Two pair of adjacent sides are congruent.
- All of the following statements are true for kites *except*?
  - They have two pair of congruent sides.
  - Both pair of opposite angles are congruent.
  - The diagonals are perpendicular.
  - A kite is a quadrilateral.
- If quadrilateral ABCD is an isosceles trapezoid, what is *not* a true statement?
  - The base angles are congruent.
  - The diagonals are congruent.
  - There is one pair of parallel sides.
  - The diagonals bisect the angles.
- Given kite WXYZ with diagonals intersecting at point P, find the value of x if the length of WP equals  $5x - 6$  and the length of WY equals 34.
  - $x = 8$
  - $x = 4.6$
  - $x = 5.6$
  - $x = 14.8$

Answers:

- c
- b
- d
- b