Kites and Trapezoids





2) Use the midsegment theorem for trapezoids to determine the length of MN.



3) GHJK is a kite. Find HP. (use the Pythagorean theorem)



4) RSTU is a kite. Find $m \angle R$, $m \angle S$, and $m \angle T$.



Name

5) Prove that the quadrilateral below is a **trapezoid**.



6) Use a coordinate proof to prove the quadrilateral below is a kite. (Hint: What is the definition of a kite?)



Property	Parallelogram	Rectangle	Rhombus	Square	Kite	Trapezoid
Both pairs of opp.						
Sides are .						
Exactly 1 pair of opp.						
Sides are .						
Diagonals are \perp .						
Diagonals are \cong .						
Diagonals bisect each						
other.						
Both pairs of opp.						
Sides are ≅.						
Exactly 1 pair of opp.						
Sides are ≅.						
All sides are \cong .						
Both pair of opp. \angle 's						
are≅.						
Exactly 1 pair of opp.						
\angle 's are \cong .						
All \angle 's are \cong .						