

Diabolical Diagonals

Distance Formula:

Midpoint Formula:

This is helpful to prove:

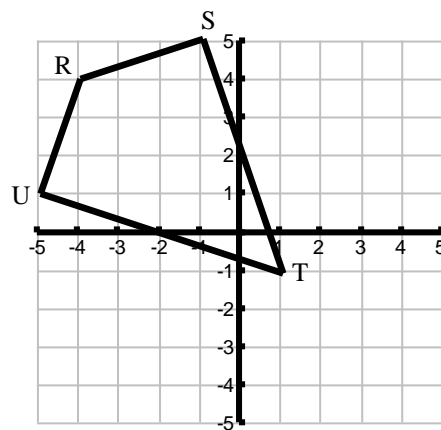
This is helpful to prove:

Slope:

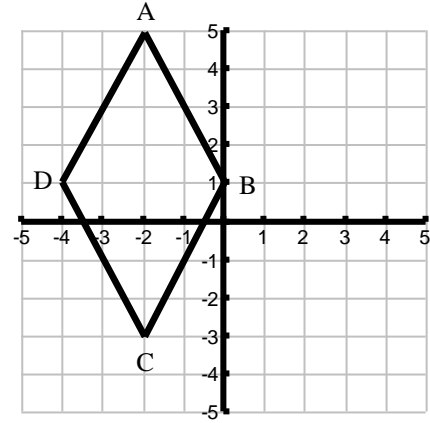
This is helpful to prove:

Determine whether diagonals for each figure bisect (meet at the same midpoint), are perpendicular, or are congruent.

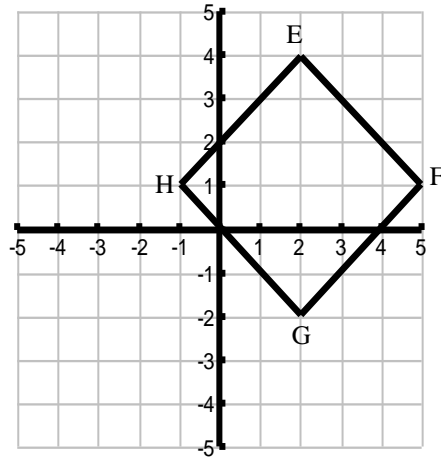
1. Use the following kite, RSTU to prove or disprove the properties about kite's diagonals.



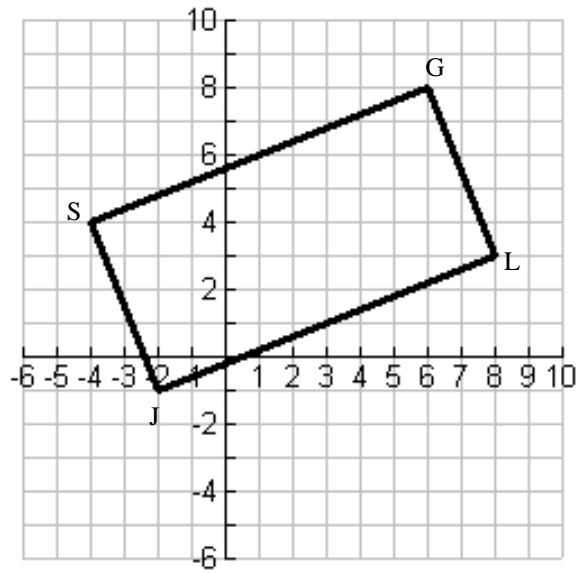
2. Use the following rhombus, ABCD to prove or disprove the properties about rhombi diagonals.



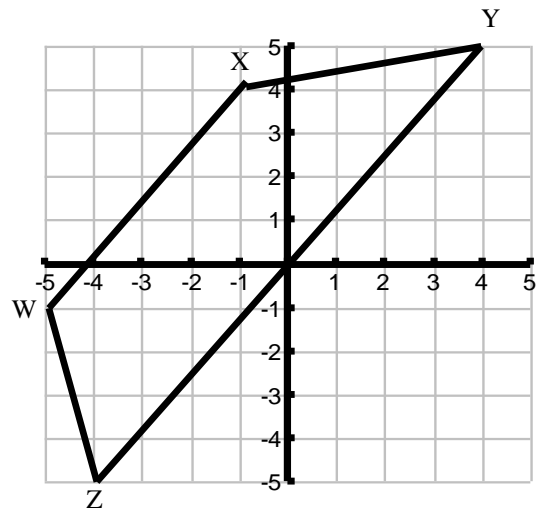
3. Use the following square, EFGH to prove or disprove the properties about square's diagonals.



4. Use the following rectangle, SGLJ to prove or disprove the properties about rectangle's diagonals.



5. Use the following trapezoid, WXYZ to prove or disprove properties about trapezoid's diagonals.



6. Use the following parallelogram, HIJK to prove or disprove the properties about parallelogram's diagonals.

