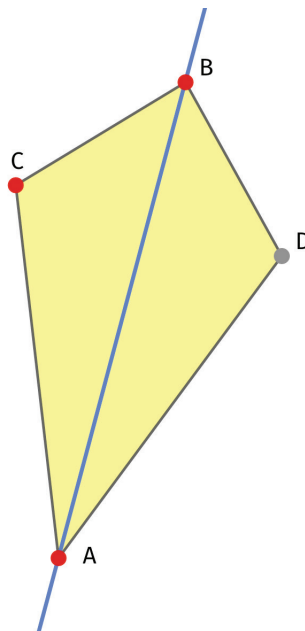


sketchometry

Explore Properties of a Kite

Construction

- ▶ Given two points A and B. Draw a line through these points.
- ▶ Choose any point C not on the line and reflect this point across the line.
- ▶ Connect the points to obtain a quadrilateral.



Exploration

- ▶ Discover properties of this special quadrilateral!
Observe sides, angles, diagonals, incircle, circumcircle.
Hint: Use grid lines and measuring tools.
- ▶ Write down your observations and results (together with sketches) in your study journal.
- ▶ Can this quadrilateral sometimes be a parallelogram, a rectangle, a rhombus, or a square?
Try to prove your conjectures in your study journal.