

Geogebra: Discovering Properties of a Parallelogram

1. From your google drive, open geogebra
2. Build a parallelogram by its **definition**
 - a. Make a line AB
 - b. Select parallel line, make point C not on line AB, then select line AB
 - c. Make line BC
 - d. Select parallel line, select point A, then select line BC
 - e. Make a point where the last unlabeled intersection point is
 - f. Create polygon ABCD
 - g. In the algebra viewing pane, un-select all the lines
3. Measure all four sides. What do you notice?

If a quadrilateral is a parallelogram, then

4. Measure all four angles. What do you notice?

If a quadrilateral is a parallelogram, then

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5. Draw diagonals (segments DB and AC). Label their intersection point E. Measure AE, BE, CE and DE. What do you notice?

If a quadrilateral is a parallelogram, then

Add some colorful flourishes to your parallelogram. Save it. **Publish** it to your blog along with your 5 *conjectures*.

(3 lines, view, close algebra pane, save, public, share, continue, embed 750 by 750, etc)