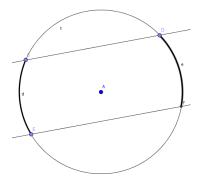
- **Step 1:** Open GeoGebra and hide the axes.
- **Step 2:** Create a circle with center A and side point B.
- **Step 3:** Place points C and D anywhere on the circle.
- **Step 4:** Create <u>line</u> CD.
- **Step 5:** Create a point E on the circle
- **Step 6:** Using the parallel line button to create a line parallel to line CD through point E.
- **Step 7:** Use the intersect button to create point F on the parallel line through point E and the circle.

Step 8: Now create 2 circular arcs: one with center A from point C to E, the other with center A from point D to F. Your construction should now look like this:



What do you notice about the measure of the arcs e and d?_____

Move the points E, C, or D around. What do you notice about *e* and *d* now?

Compare your results with the results of others near you.

Your next conjecture could be: Parallel lines intercept ______ arcs on a circle.