**Day 4: students will construct a regular pentagon with a length of side 1 unit.**

Previous lesson students have learned how to construct a segment with a length (1 + √5)/2 and this lesson they will construct a regular pentagon with a length one unit by using previous lesson’s knowledge.

**Step 1:**

Since 1 unit bar is given and they know how to construct a segment with a length (1 + √5)/2 they will easily construct a regular pentagon. First, they will measure 1 unit respectively from points C and O and call them D and E.





AD = BE = 1 unit

**Step 2:**

Students will draw circles with centers C and O and radius 1 and call the intersection point X.

 

**Step 3:**

Students will connect points A (C) and B (O) with X.



**Step 4:**

Students will draw circle with center E and radius 1 than they will label F the intersection of two circles (blue and green circles) and draw segment from C to F.

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**Step 5:**

Student will draw circle with center D and radius 1. They will find the intersection of two circles (dark green and pale green circles) and label it G than they will draw segments from O to G and G to F.

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**Step 6:**

Student will get a regular pentagon (CFGOZX) with a length of side 1 unit.

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