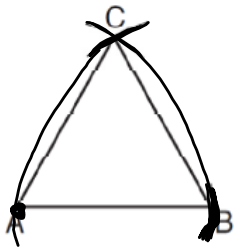
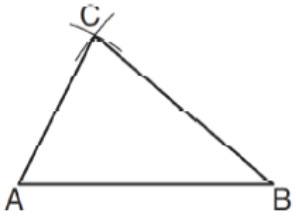
DO NOW

Which diagram represents a correct construction of equilateral ΔABC, given side $\overline{AB}$?

A)

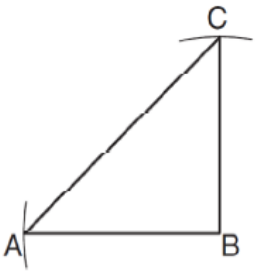


C)



B)

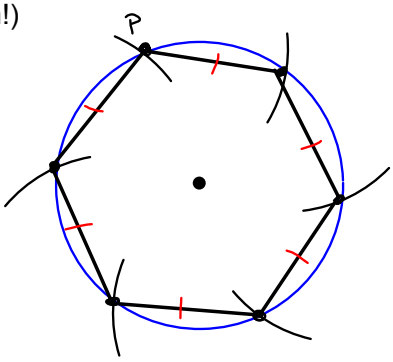
D)

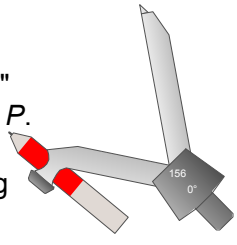


Sep 24-12:57 PM

Constructing a Regular Hexagon (option 1)

1. Draw a point and a circle using that point as the center (Keep this compass span!)
2. Place a dot, labeled *P*, anywhere on the circumference of the circle
3. **Without changing the span on the compass,** place the compass point on *P* and swing a small arc crossing the circumference of the circle.
4. **Without changing the span on the compass,** move the compass point to the intersection of the previous arc and the circumference and make another small arc on the circumference of the circle.
5. Keep repeating this process of "stepping" around the circle until you return to point *P*.
6. Connect to each arc on the circle forming the regular hexagon.

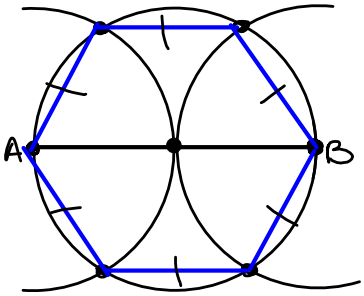


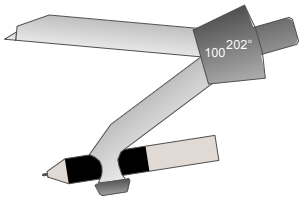


Sep 24-7:13 AM

Constructing a Hexagon (option 2)

1. Draw a point and a circle using that point as its center
2. Draw a diameter of the circle (segment *AB*)
3. Set the width of the compass as the radius of the circle
4. Draw an arc from point *A* to intersect the circle twice
5. Repeat and draw an arc from point *B*
6. Connect the arcs using a ruler to complete the hexagon



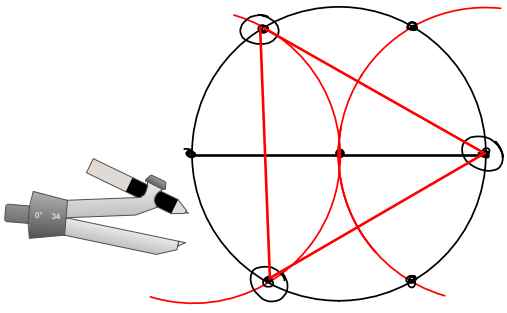


Sep 24-8:02 AM

Constructing an Equilateral Triangle (option 2)

★ Inscribed in a Circle ★

Follow process of constructing a hexagon, but only connect every OTHER point on the circumference of the circle



Sep 24-8:24 AM