

Copy a Segment (Create a Congruent Segment)

1. Use a straightedge to mark any ray that will contain your new segment.



2. Use the compass to find the length of the given segment.



3. Move the compass so its center is at an endpoint of the new segment. Don't change the radius of the compass.



4. Draw a short arc. The intersection point gives you the other endpoint of the segment.

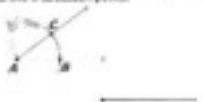


Copy an Angle (Create a Congruent Angle)

1. Use a straightedge to create any ray that will serve as one side of your new angle.



2. Mark an arc (of ANY radius) on the original angle to create two intersection points.



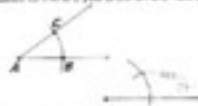
3. Keeping the same radius, mark a (fairly long) arc around the vertex of your new angle.



4. Use your compass to measure the distance between the new points created on the original angle.



5. Use your compass to mark an arc that transfers this distance to the arc you drew on the new angle.



6. The intersection point is on the other side of the angle. Use a straightedge to draw the other ray.

