Ian Kilgore: Instructions for creating my constructions:

1. Two parallel lines, one of which is drawn through a given point:
2. First, use straight edge to make a line l and a point (not on the line) of N
3. Put 2 points (J and H) on the line l
4. Take your compass and put the tip on H and N and make an equal size arc from each point
5. Use a straight edge to create the second line (m) using the arcs to be sure parallel
6. A bisected angle:
7. Using your protractor, make an angle A
8. Put your compass point on the vertex and draw a large arc that intersects both sides of the angle.
9. Put your compass point on the points that the arc intersected (B & C) to make another arc further out from the vertex from each point.
10. Using your straight edge, make a straight line from the vertex through the intersection of the arcs (D)
11. A segment bisected by a perpendicular line:
12. Using a straight edge, create a line segment (AB)
13. Put your compass point on point A and make an arc that is larger than half of the length of the segment
14. Keeping your compass at the same setting, make an opposite arc from point B
15. Using your straight edge, make a straight line through the intersections of the two arcs
16. A perpendicular line drawn from a point not on a line to a line:
17. Using a straight edge, create a line l with a point (R) not on the line
18. Put your compass point on point R and make an arc that is larger enough to intersect the line in two places
19. Where it intersects the line, label the two points E & F
20. Using your compass at the same setting, put the compass point on points E & F and make little arcs
21. Where those intersect (G), use your straight edge to make a perpendicular line from R to G