

Geometry – Constructions**Assignment #12**

Complete all constructions on the class work handout on circumscribing and inscribing circles.

Choose three of the following types of problems (and complete all parts if there are multiple parts):

1. Construct the following segment lengths: 3
 - a. Length 6
 - b. Length 10.5
 - c. Length 7.5
2. Construct the following angle measures (remember to construct 60° and 90° and their bisectors to help):
 - a. Measure 15°
 - b. Measure 22.5°
 - c. Measure 37.5°
3. Draw a line (name it line l), then place one point R on the line and another point Q *not* on the line.
 - a. Construct the line perpendicular to Line l and passing through Point R
 - b. Construct the line perpendicular to Line l and passing through Point Q
4. Draw a line (name it line m), then place one point P above the line and another point Y below the line.
 - a. Construct the line parallel to Line l and passing through Point P
 - b. Construct the line parallel to Line l and passing through Point Y
5. Draw a point X and draw a circle with center X ; then draw two extended radii \overline{XM} and \overline{XN}
 - a. Construct the line tangent to Circle X and passing through Point M
 - b. Construct the line tangent to Circle X and passing through Point N

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