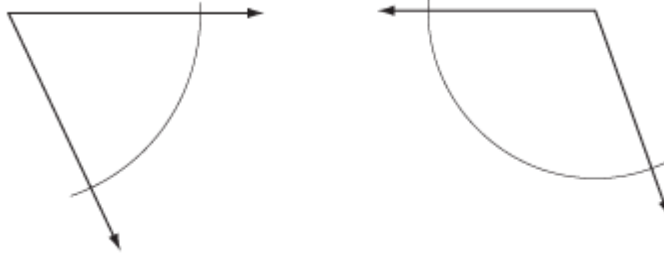


Chapter 3 Constructions Assignment #2

Using only a compass and a straightedge, do the constructions in the following problems.

1. Bisect the angles (with a compass and straightedge) below.



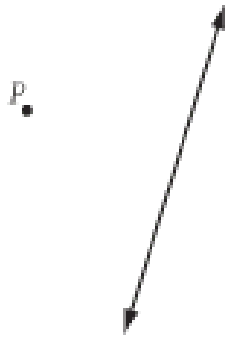
2. Construct an angle with each given measure and label it. Remember, you may use only your compass and straightedge. No protractor!

a.) 90° (Hint: What kind of lines could you construct to give you a 90° angle?)

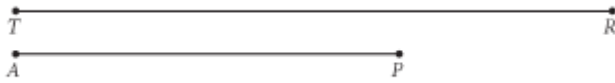
b.) 45° (Hint: Think angle bisector!)

c.) 135° (Hint: Think angle bisector!)

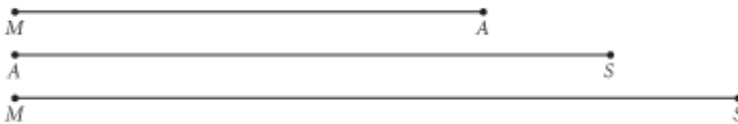
3. Construct a line parallel to the line below that goes through point P .



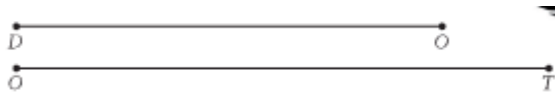
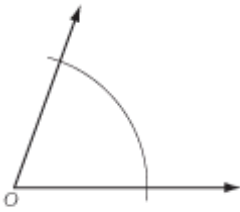
4. Construct trapezoid $TRAP$ with \overline{TR} and \overline{AP} as the two parallel sides. (There are many solutions!)



5. Given the three line segments below, construct $\triangle MAS$.



6. Given the two line segments and $\angle O$ below, construct $\triangle DOT$. Describe the steps in your construction.



7. Given the two line segments below, construct isosceles triangle CAT with perimeter y and length of the base equal to x .

