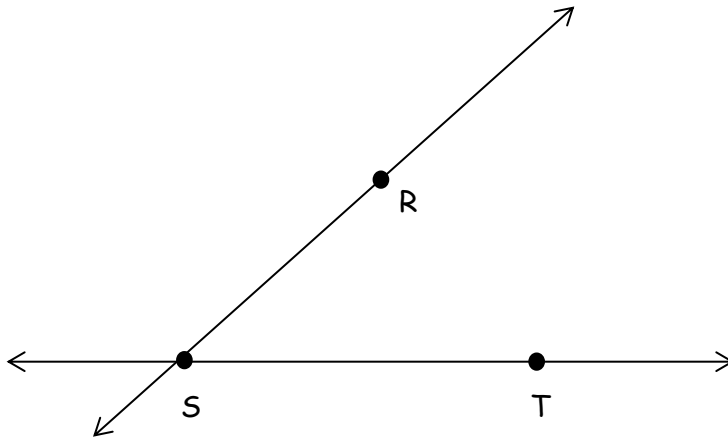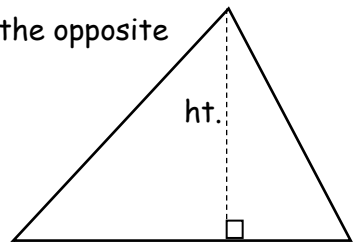Constructing parallel lines and a perpendicular from a point to a line.

1. **Construct parallelogram RSTU**
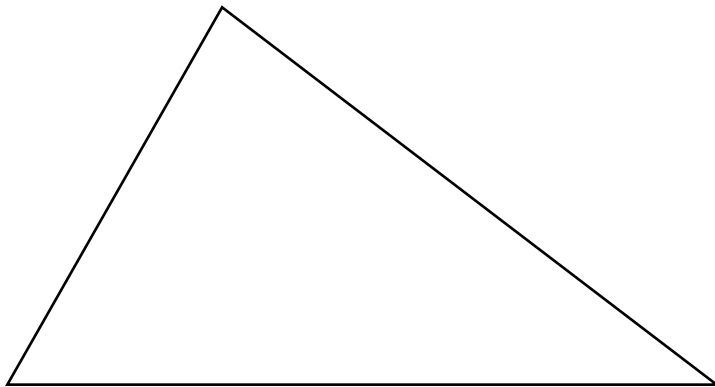

   List each construction method used, in order:

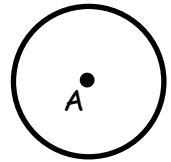2. The height of a triangle is the perpendicular distance from a vertex to the opposite side as shown:

   Construct the height of the triangle:

3. Constructing a circumcenter:

Draw any three points on circle A. Connect those points to draw a triangle. The circle is now circumscribed about the triangle.

While this is easy, what if you started with the triangle and needed to draw the circle?

What do you need to know in order to draw the circle …the center.
        This is a special point within a triangle called the circumcenter.

Constructing a circumcenter:

        Construct the perpendicular bisectors of all three sides of ΔWXY.

        Label the point of intersection, C. It is the circumcenter.

        Draw circle C with radius, $\overline{CW}$.

        How did you do?

W

X   Y