and the angle opposite to the greater one of them; (d) given two sides and the angle opposite to the smaller one of them (in this case there can be two solutions, or one, or none).

121. An isosceles triangle: (a) given its base and another side; (b) given its base and a base angle; (c) given its base angle and the opposite side.

122. A right triangle: (a) given both of its legs; (b) given one of the legs and the hypotenuse; (c) given one of the legs and the adjacent acute angle.

123. An isosceles triangle: (a) given the altitude to the base and one of the congruent sides; (b) given the altitude to the base and the angle at the vertex; (c) given the base and the altitude to another side.

(124) A right triangle, given an acute angle and the hypotenuse.

(125) Through an interior point of an angle, construct a line that cuts off congruent segments on the sides of the angle.

126. Through an exterior point of an angle, construct a line which would cut off congruent segments on the sides of the angle.

127. Find two segments whose sum and difference are given.

128. Divide a given segment into 4, 8, 16 congruent parts.

(129) On a given line, find a point equidistant from two given points (outside the line).

(130.) Find a point equidistant from the three vertices of a given triangle.

131. On a given line intersecting the sides of a given angle, find a point equidistant from the sides of the angle.

(132) Find a point equidistant from the three sides of a given triangle.

133. On an infinite line AB, find a point C such that the rays CM and CN connecting C with two given points M and N situated on the same side of AB would form congruent angles with the rays CA and CB respectively.

134 Construct a right triangle, given one of its legs and the sum of the other leg with the hypotenuse.

135. Construct a triangle, given its base, one of the angles adjacent to the base, and the difference of the other two sides (consider two cases: (1) when the smaller of the two angles adjacent to the base is given; (2) when the greater one is given).

136. Construct a right triangle, given one of its legs and the difference of the other two sides.