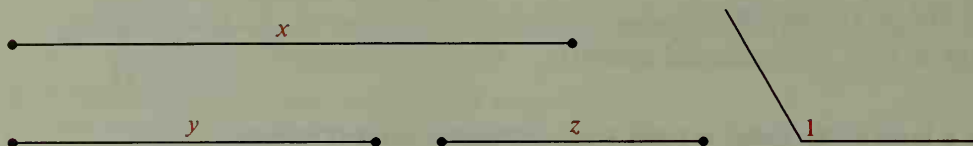


Chapter Test

Begin by drawing segments and an angle roughly like those shown.



- Construct an isosceles triangle with vertex angle congruent to $\angle 1$ and legs of length z .
- Construct a 30° - 60° - 90° triangle with shorter leg of length y .
- Construct a segment of length \sqrt{xy} .
- Construct a segment of length $\frac{2}{3}(y + 2z)$.
- Construct a segment of length n such that $\frac{x}{z} = \frac{y}{n}$.
- Draw a large circle and a point K not on the circle. Using K as one vertex, construct any triangle that is circumscribed about the circle.
- Draw a large triangle and construct the circle inscribed in the triangle.
- In a right triangle (a) the ? of the triangle intersect at a point on the hypotenuse, (b) the ? intersect at a point inside the triangle, and (c) the altitudes of the triangle intersect at a ? of the triangle.
- An isosceles triangle has sides of length 5, 5, and 8.
 - What is the length of the median to the base?
 - When the three medians are drawn, the median to the base is divided into segments with lengths ? and ?.
- Given points R and S in plane Z , what is the locus of points (a) in Z and equidistant from R and S and (b) in space and equidistant from R and S ?
- Given points T and U 8 units apart, what is the locus of points, in space, that are 6 units from T and 4 units from U ?
- Draw a line l and a point A on it. Using y and z from Exercises 1–5, construct the locus of points z units from l and y units from A .