(1) (Problem △7.1.1)

Draw a perspective image of several objects. Draw a lamppost (light-source) and then find the shadow for each face of your objects.

Answer: I chose to draw a rectangular box and the letter "A". If you want to move the Rectangular box around you must grab it by the square face that is farthest from the viewer. If you want to move the letter "A" around you must grab it by the face that is closest to the viewer that is in the shape of an "A". The following are images exported from GeoGebra that show we can manipulate the objects in the document,

FIGURE 1.

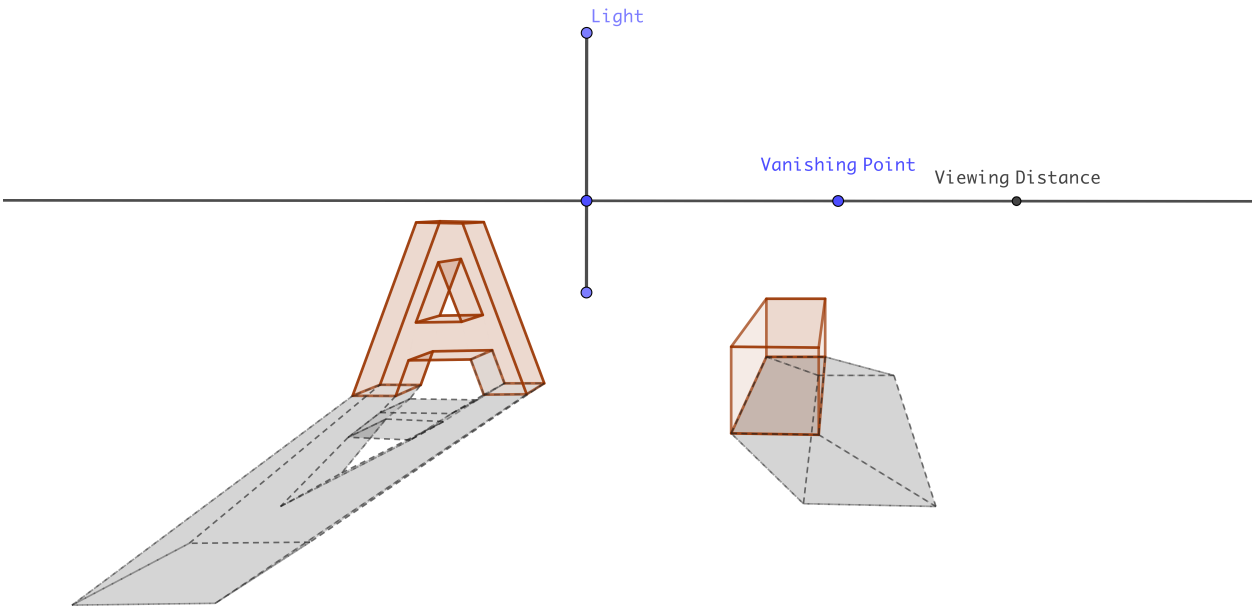
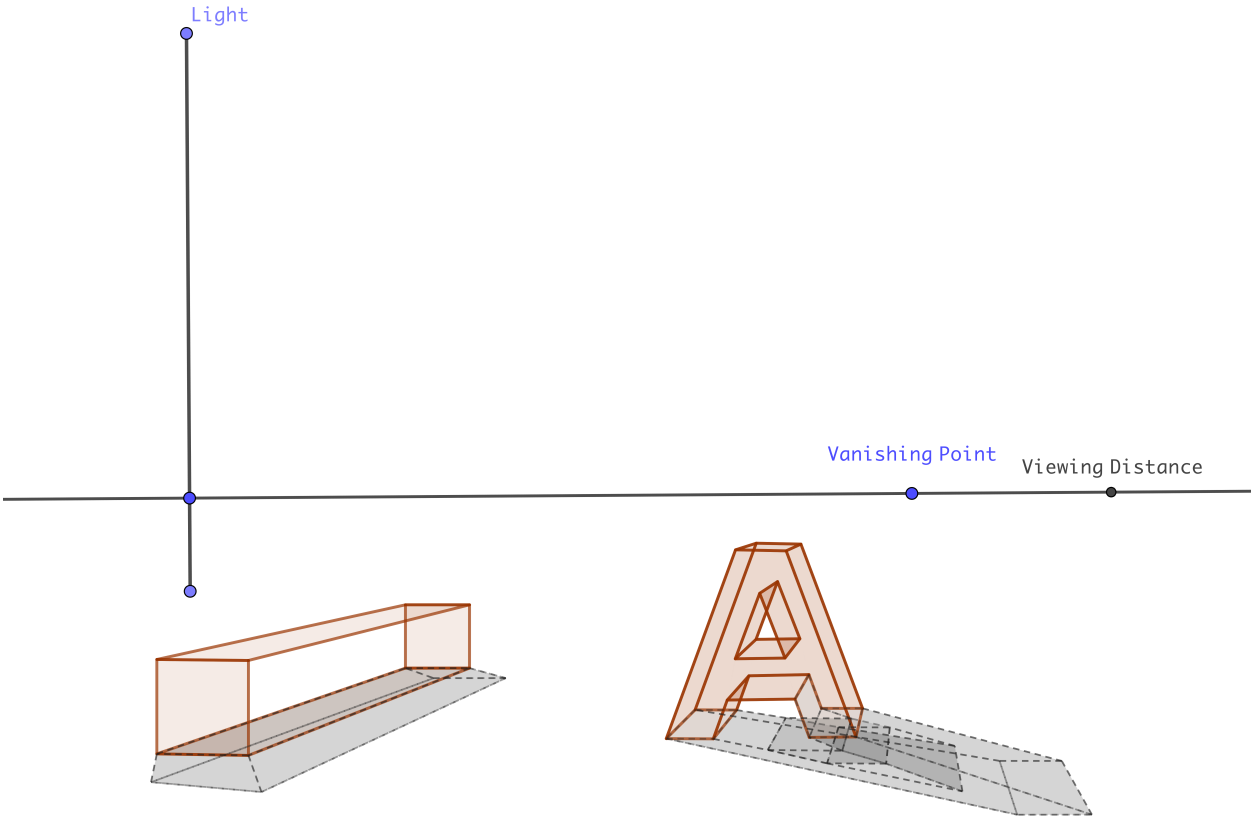


FIGURE 2.



(2) (Problem ◯7.1.2)

Figure 7.5 shows a light source, a kite, the line where the plane of the kite intersects the plane of the ground, and the shadow of one corner of the kite. Draw the remainder of the shadow.

Answer: I started my drawing by using the point of the shadow that is given to find the base of the light-source. Then the problem follows similarly to the example in the beginning of the chapter where we had to draw the shadow of a letter "A".

FIGURE 3.

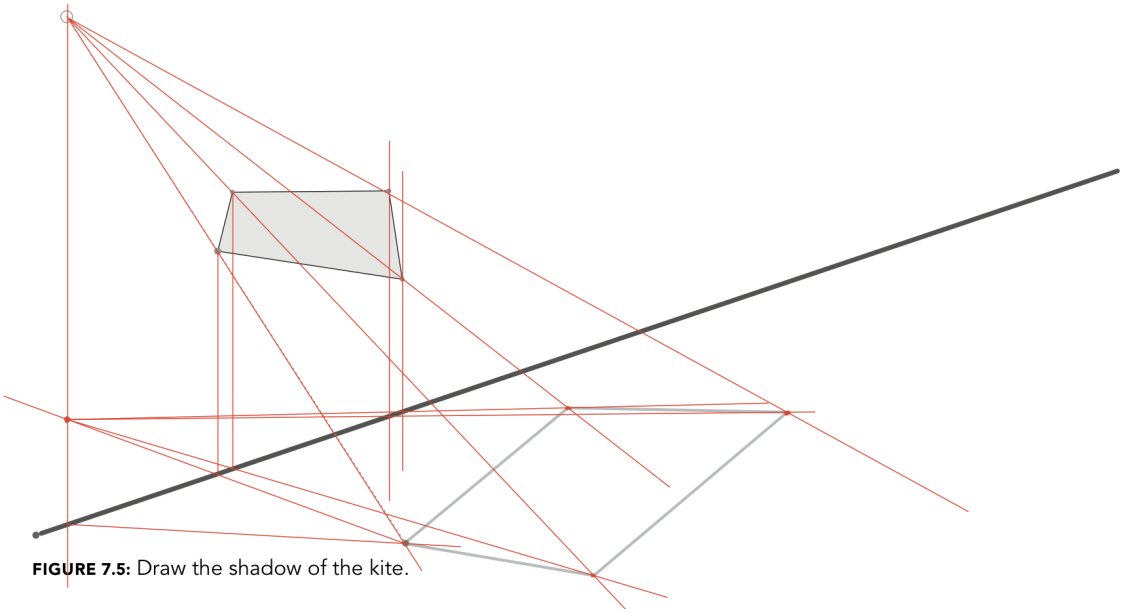


FIGURE 7.5: Draw the shadow of the kite.