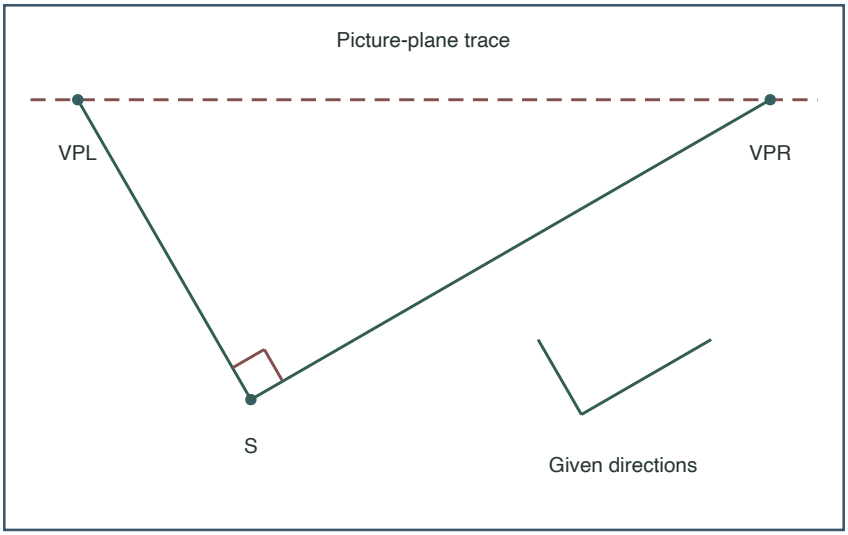
Perspective Drawing Mathematics

Reference I Perspective plan I A4

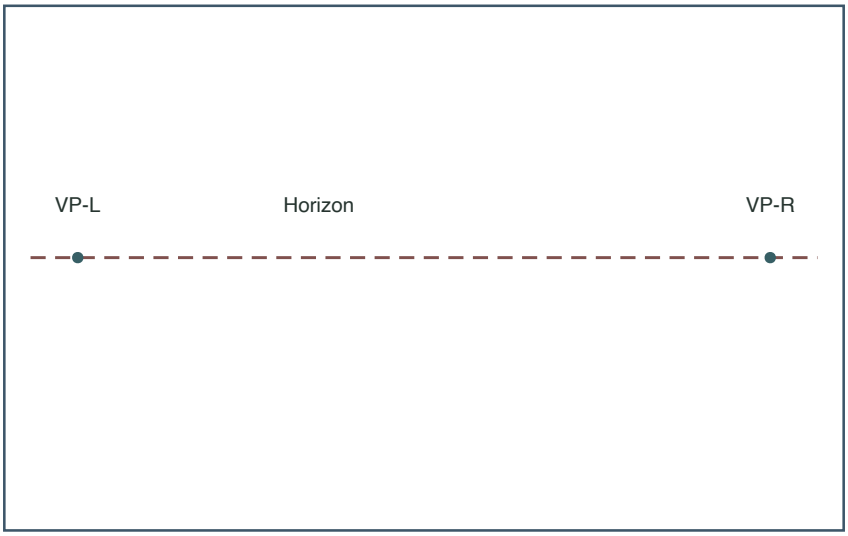
Prompt

Construct a two-point perspective plate: horizon line, station point S, and two vanishing points VPL and VPR derived from S for a rectangular object with left and right edge families.

Plan view



Upright view



Answer

In plan, S is on the viewer's side of the picture-plane trace. Use the two example directions to draw a left ray and a right ray through S. Transfer their intersections with that trace to the upright horizon as VPL and VPR.

Reasoning

Each horizontal vanishing direction intersects the picture plane along the line through the eye parallel to the object edge. Both intersection points lie at eye level.

Check

Check the two rays against the given directions in plan. Both upright horizon marks must preserve their plan intersections' horizontal positions.