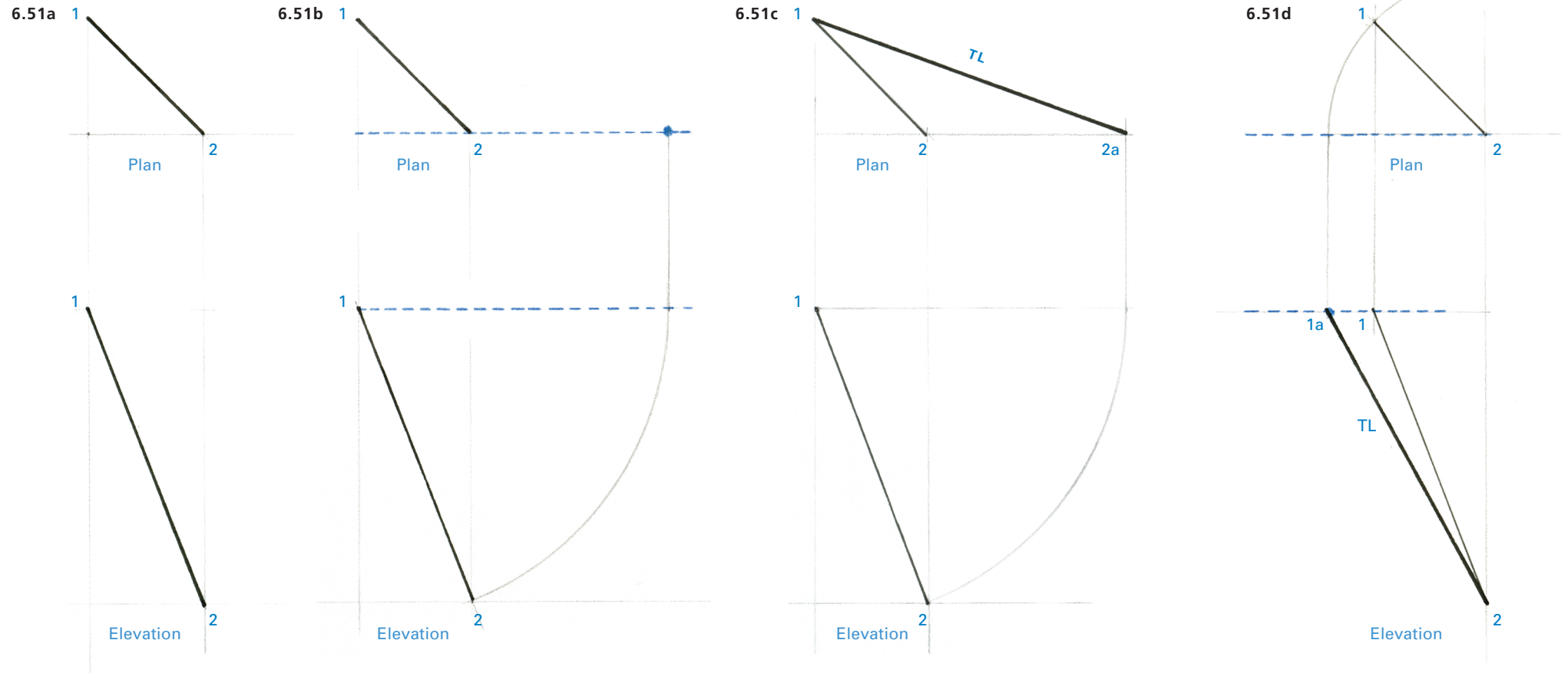


Orthographic 6.51

Calculating true lengths

Compass Method



6.51a Take line 1-2 in elevation as a radius. Use a compass to draw an arc until it strikes the projection plane.

6.51b Project this point vertically to intersect the projection plane in plan. Mark with a dot.

6.51c Draw a line in plan from 1 to the dot (2a). This is your true length (TL).

6.51d Conversely, take line 1-2 in plan as a radius. Use a compass to draw an arc until it strikes the projection plane. Project the point to

intersect the projection plane in elevation. Make a dot. Line 1a-2 is your true length.