The projections of two **skew lines** AB and CD are shown.

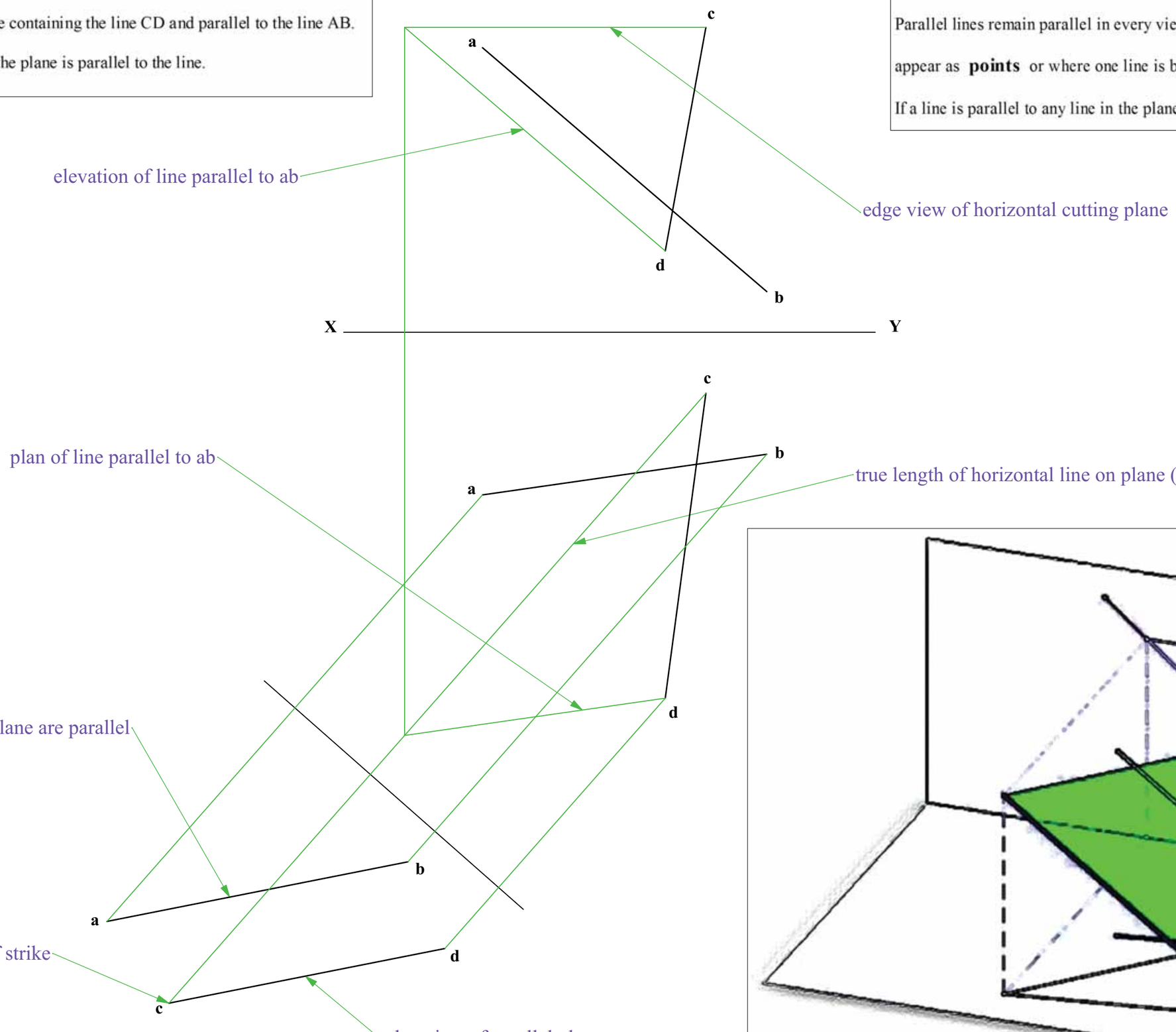
(a) Find a plane containing the line CD and parallel to the line AB.

(b) Prove that the plane is parallel to the line.

Key Principles

Parallel lines remain parallel in every view except in the views in which they appear as **points** or where one line is behind the other.

If a line is parallel to any line in the plane, it is parallel to the **plane**



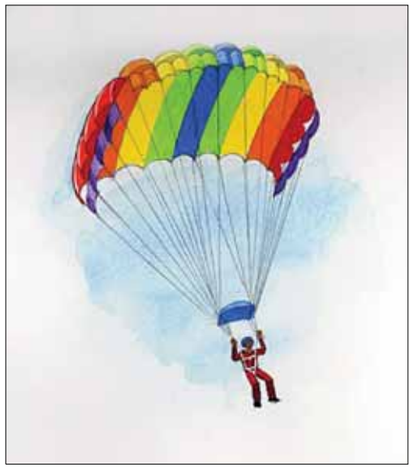
SKEW LINES 1

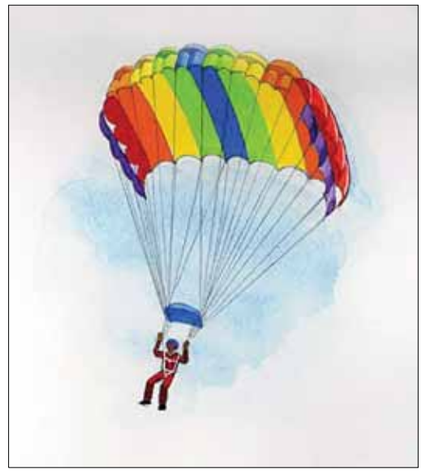
The directions of two parachute jumpers landing are represented by the two **skew lines** AB and CD.

(a) Determine the **shortest distance** between the two skew lines.
(b) Determine the projections of this shortest distance.

Key Principle

A plane is drawn containing one of the lines and having a line on it parallel to the other line.





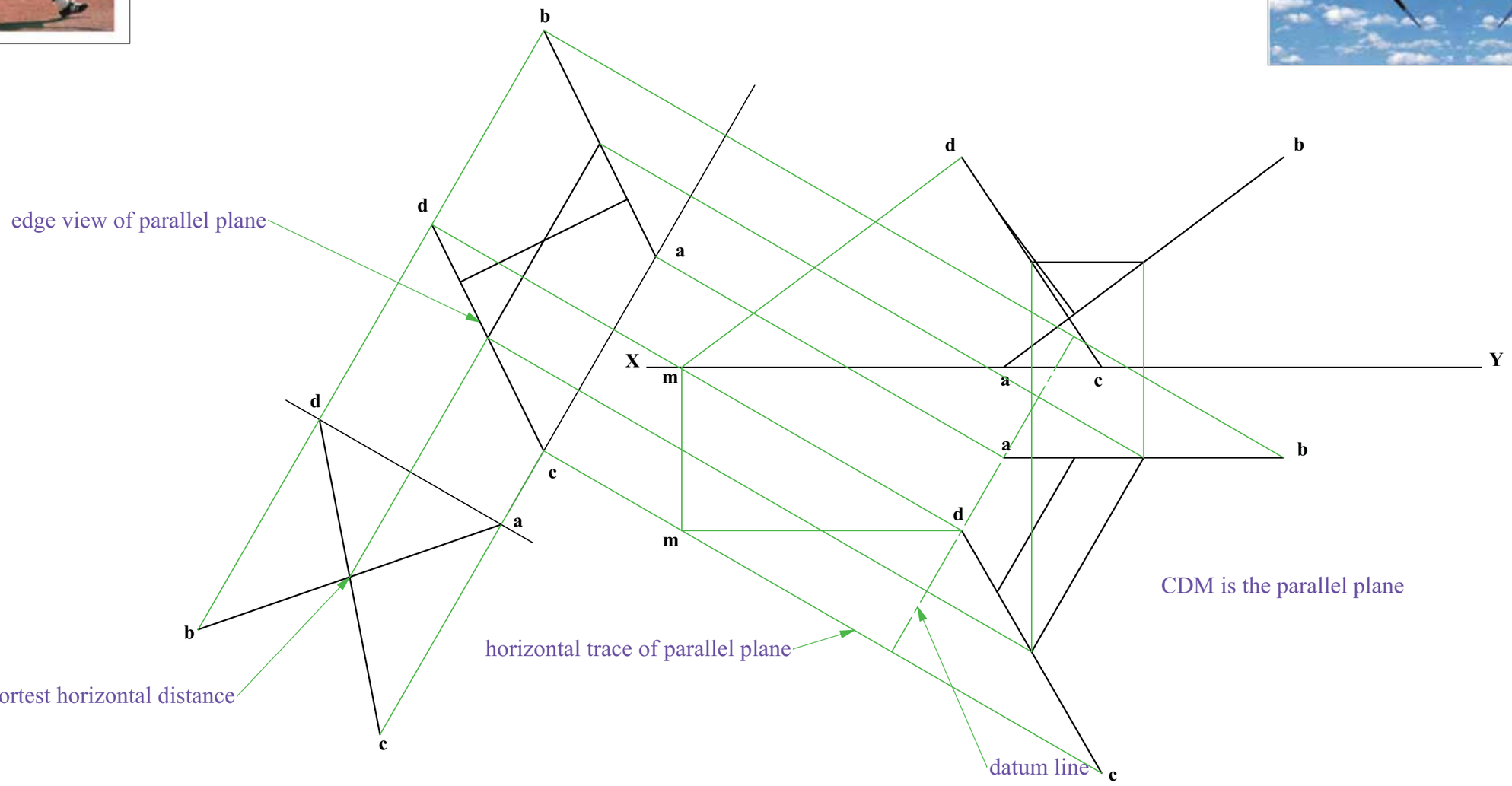
SKEW LINES 2

The directions of two javelins are represented by the two **skew lines** AB and CD. The projections of the shortest distance between them are given.

Determine the projections of the **shortest horizontal distance** between them.

Key Principle

A plane is drawn containing one of the lines and having a line on it parallel to the other line.



SKEW LINES 3