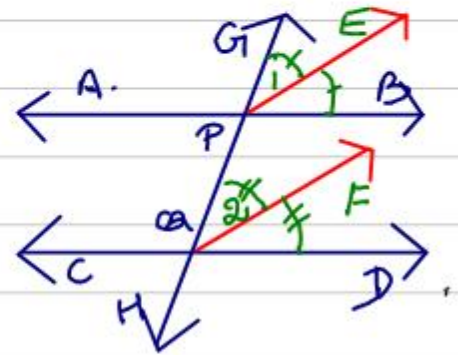


ncert exemplar, ex 6.4, Page 2

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③ given - Infig $AB \parallel CD$
to prove $PE \parallel AF$



proof $AB \parallel CD$
 $\angle GPB = \angle PQD$
 $2\angle 1 = 2\angle 2$

[PE bisects $\angle GPB$
AF bisects $\angle PQD$]

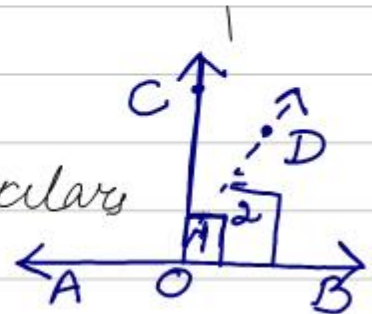
$$\Rightarrow \angle 1 = \angle 2$$

But these are alternate in. LS

$$\therefore PE \parallel AF$$

④ given $OC \perp AB$

Proof ^{Suppose} AB has perpendiculars
other than OC at O



let $OD \perp AB$

$$\angle 1 = 90^\circ \quad (OC \perp AB)$$

$$\angle 2 = 90^\circ \quad (OD \perp AB)$$

$$\therefore \angle 1 = \angle 2$$

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but this is not possible

$\because \angle 2$ is a part of $\angle 1$

\therefore our supⁿ is wrong
and one and only one per can
be drawn to a line at a point.