

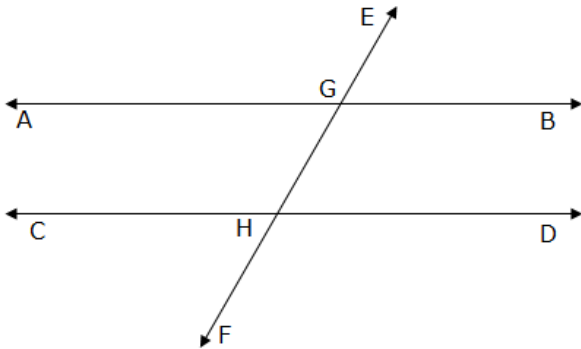
NCERT Exemplar Solutions in Mathematics class ix, Chapter 5

Exercise 5.4

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Answer 3

The system of axioms is not consistent.



$\angle EGB \neq \angle GHD$ [corresponding angles are not necessarily equal.]

But $\angle EGB = \angle AGH$ [vertically opposite angles.]

$\therefore \angle AGH \neq \angle GHD$

But these are alternate interior angles which are equal.

\therefore not consistent.

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Exercise 5.4

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