

Exercise 5.2

1. How would you rewrite Euclid's fifth postulate so that it would be easier to understand?

→ If a line intersects 2 lines such that sum of 2 int. angles on the same side of the transversal is less than 180° . When the lines are produced on that side they will intersect each other at one point.

2. Does Euclid's fifth postulate imply the existence of parallel lines? Explain.

→ Yes

If a line intersects 2 lines such that sum of two angles on the same side of the transversal is 180° . Then the distance between the 2 lines will always remain same.

i.e., the lines are parallel.