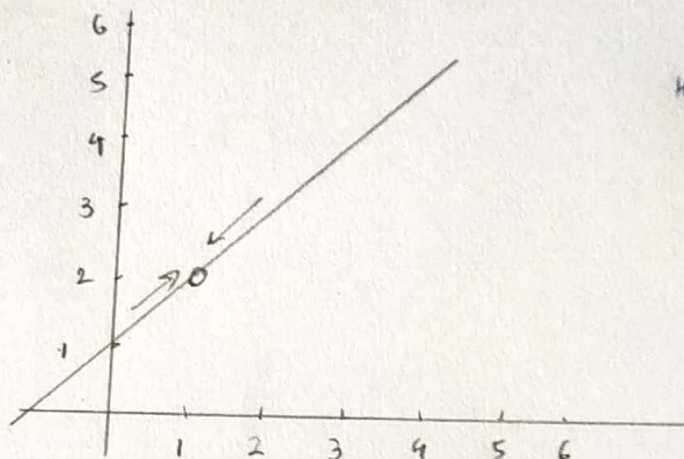


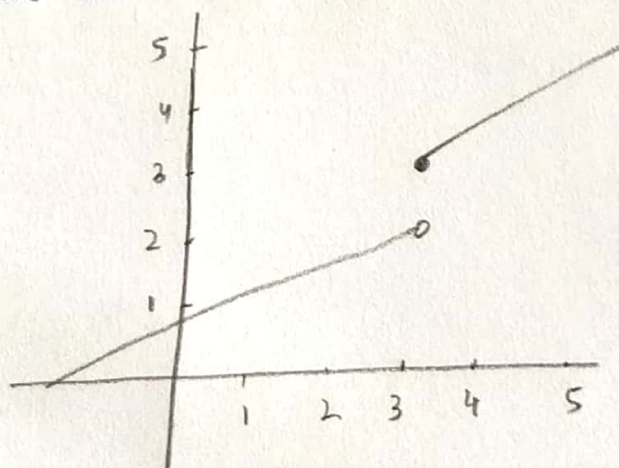
Limits Introduction

1. Limits do not depend on actual values of the function at the limit. They describe how the function behaves when it gets closer to the limit.



here $\lim_{x \rightarrow 1} f(x) = 2$

2. When a limit does not approach same values from both sides, we say that limit does not exist.



here, when we approach $x=3$ from left, function approaches 2 and when we approach $x=3$, from right, the function approaches 3