Limits

There is more than one status in limits.

1. Simplest method using evaluation

and finds a solution.

2. Sometimes when using evaluation you will be stuck in 0/0 and this is ERROR.

This named as "Case of indetermination" , so we will using Difference of two squares Technique like this :

And sometimes you will using multiple rules such as (Multiplying the denominator by changing the sign of the numerator and denominator results in a change).