



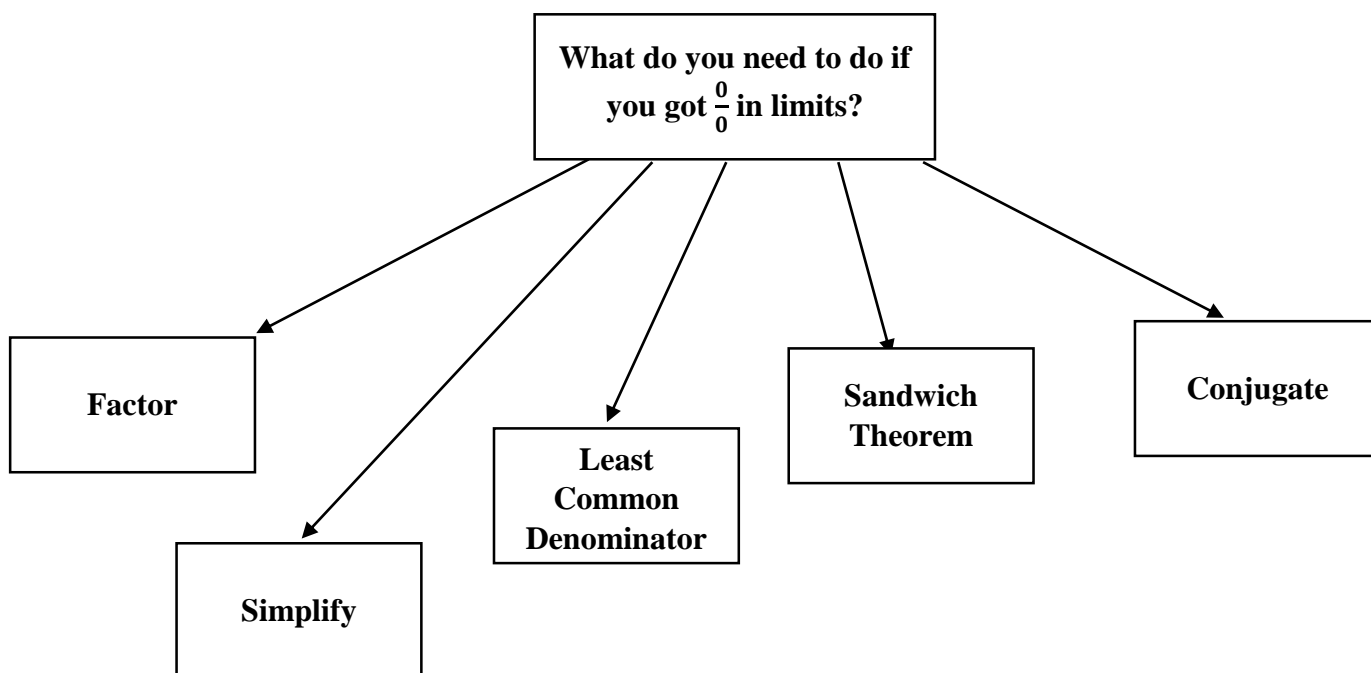
Handout 4

MATH 140 Lab: Section 1

Lab Instructor (TA): Mohammed Kaabar

Student's Name:-----

Student's ID:-----

Note: This handout summarizes some important notes about limits**Some Important Simplifications:**

- $A^2 - B^2 = (A - B)(A + B)$
- $A^3 - B^3 = (A - B)(A^2 + AB + B^2)$
- $A^3 + B^3 = (A + B)(A^2 - AB + B^2)$
- $(A - B)^2 = (A^2 - 2AB + B^2)$
- $A^4 - B^4 = (A^2 - B^2)(A^2 + B^2) = (A - B)(A + B)(A^2 + B^2)$
- $\frac{A-B}{B-A} = -1$