14th May 2024 Class Work 1. (a) Lim 8(t-5)(t-7) X->2

14th May 2024 Class Works (b) Lim 2x2-2x+3 Lim x2+4x+4 (a)  $x^{2}+3x+6$   $x^{5}+2x^{2}+9$ 2->+0 2->00 (c)  $\lim_{x \to -7} \frac{x^2 + 3x - 5}{x + 7}$  (d)  $\lim_{x \to 2} \frac{x + 3}{x + 6}$ 20->-5

14th May 2024

Claw Mork 3

(i)  $\lim_{x \to 3} \frac{2x^2 - 1x - 15}{x - 5}$  (2)  $\lim_{x \to 1} \frac{x^3 - 1}{x - 1}$   $\lim_{x \to 3} \frac{x - 5}{x - 5}$ 

Class Work#: 14th May 2024(a)  $\lim_{x\to 2} \frac{x+2}{|x+6|-2|}$  (b)  $\lim_{x\to 2} \frac{x+10-3}{|x-1|}$ 



Classinorks: 17th May 2024 Determine the limit (if it exist). (b) Lim Sin2x (a) Lim Sect-1 Dim Sect-1 D →0 X->0 (6) Lim Sin 3x (d) Lim tanx 26->0

Class Work 6: 27th May 2024 Monday

1. Determine if the series  $\sum_{n=1}^{\infty} \frac{n!}{n^n}$  converges.

2. Determine if the series  $\sum_{n=1}^{\infty} \frac{n^n}{(n!)^2}$  converges