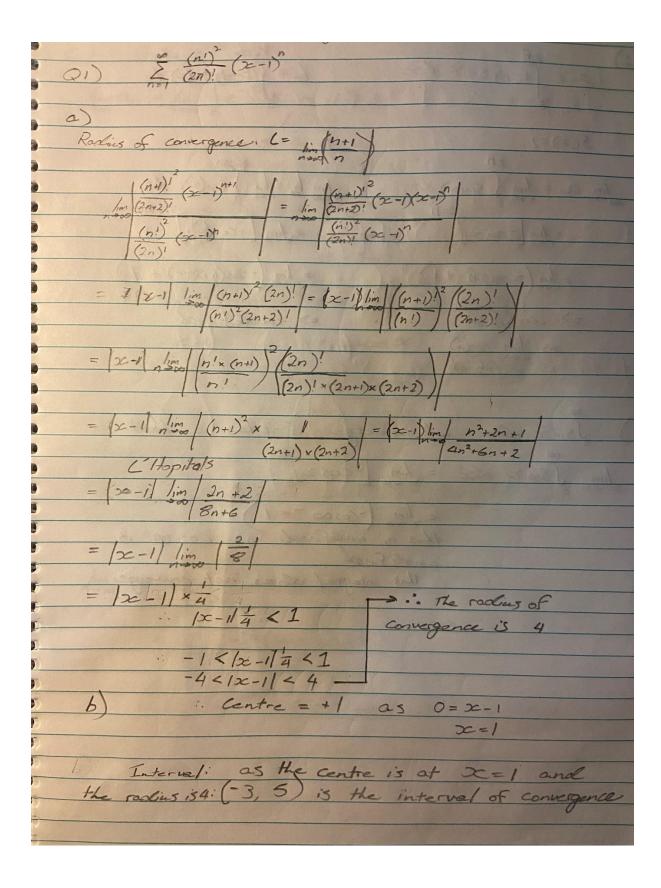
Attach this page to the front of your submission. Remember to sign the declaration.

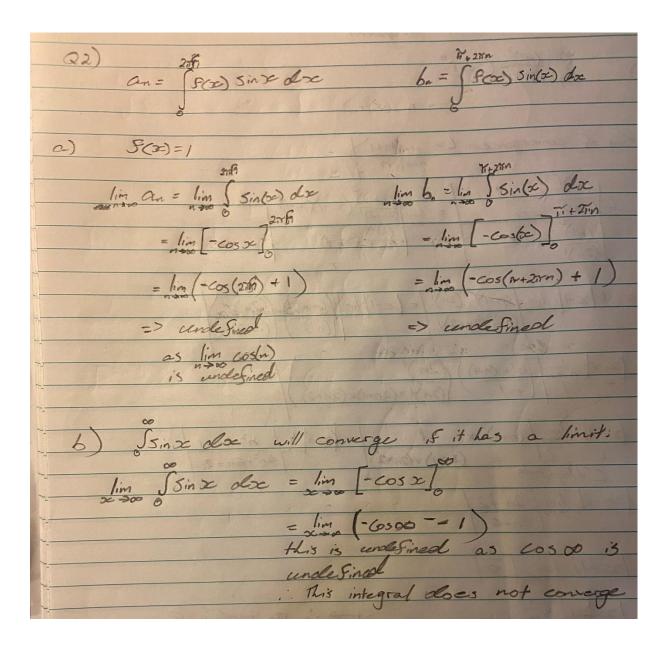
I hereby state that the work contained in this assignment has not previously been submitted for assessment, either in whole or in part, by either myself or any other student at either The University of Queensland or at any other tertiary institution except where explicitly acknowledged. To the best of my knowledge and belief, the assignment contains no material that has been previously published or written by another person except where due reference is made. I make this Statement in full knowledge of an understanding that, should it be found to be false, I will be subject to disciplinary action under Student Integrity and Misconduct Policy 3.60.04 of the University of Queensland. The University of Queensland 's policy on plagiarism can be found at

 $http://ppl.app.uq.edu.au/content/3.60.04-student-integrity-and-misconduct \\ (Reference~3.60.04).$

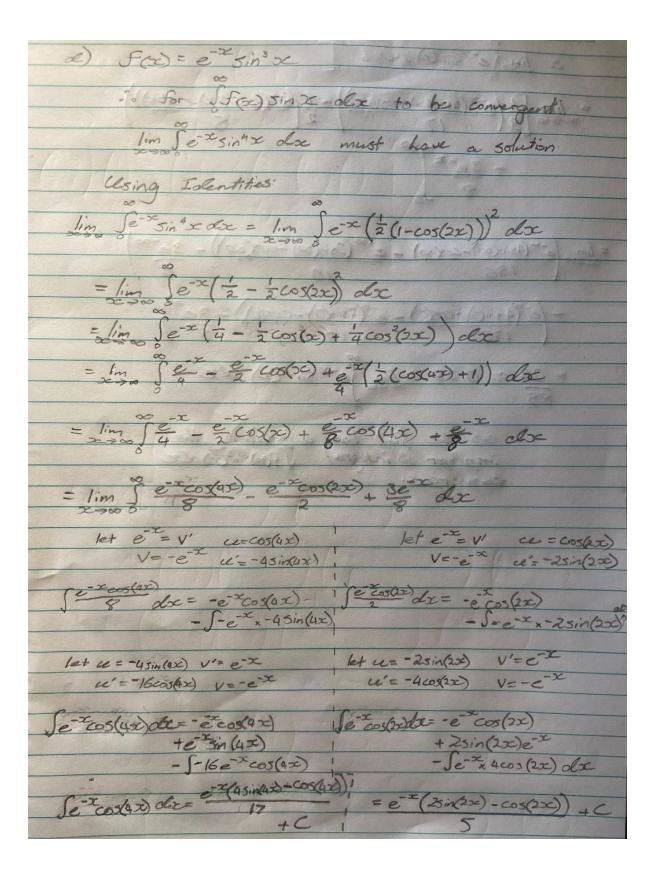
Name	Samuel Allpass	Studer	nt ID .	48030504	ļ	
		I				
Signed .	Samuel Allpass	Date	14/5			

Question	Mark
1	
2	
3	
4	
Total	





```
c) fox)= e-x
lime an = lim le x sin x dox
          kt ce= 5in x v=e-x
          12 = COS X V= -e-x
                        W=Sinx
         = -exsinx-excosx - [exsinx do
  e^{-x}\sin x dx = -e^{-x}(\sin x + \cos x)
  (since doe = = = (since +cos x)
       = lim (- 2m/sin(2mn) =+cos(2mn) =- 1(0+1)
              27/11+11
              Cex sin x dr
                                  THERM
                -ex(Sinx +cosx)
              == (211m) (Sin(17+217m) +COS(17+217m) -- 1(0+1)
       = = =
```



: lim (e- Sin4 =) die In (usin(4x)-cos(4x)) - 1 (e-x(2sin(2x)-cos(2x)) - 3e-x 8 (4sin(xx)-cos(xx) - e (2sin(xx)-cos(xx)) = lim (= (4 sin(6) - cos(6) - e (2 sin(6) - cos(6)) = 24 2 0.28 = lim (e-x sin4(x) de improper integral Spoising cole

