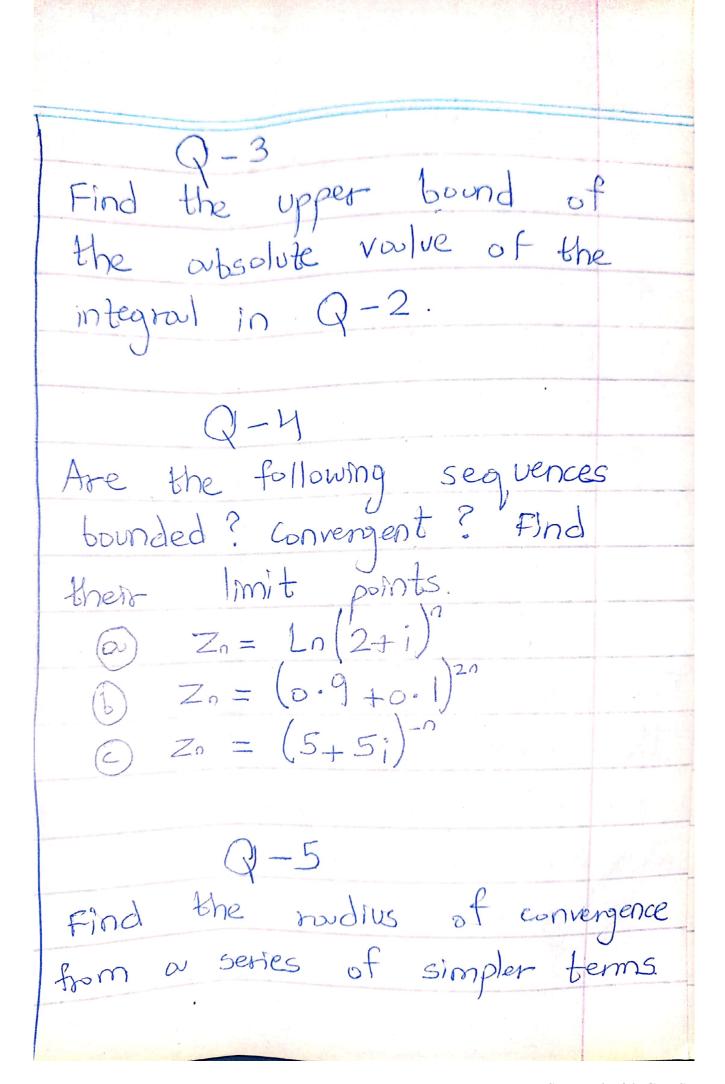
For what contour c will it follow Cauchy's Interest theorem, that dz =0 y-2Integrate Sc. Rezdz; c the parabola y=x² from 0 to 1+i.



(a) 
$$\frac{2}{2} \frac{n(n-1)}{3^n} (z-2i)^n$$

$$\frac{2}{3^n} \frac{n}{2^n} (z-2i)^{2n}$$
(b)  $\frac{2}{2^n} \frac{n}{2^n} (z-2i)^{2n}$ 

$$\frac{2}{n-1} \frac{3^n n(n+1)}{5^n} (z-1)^{2n}$$

$$\frac{2}{n-1} \frac{3^n n(n+1)}{5^n} (z-1)^{2n}$$
Q-6
Find the Taylor series of the given functions with the given os center and determine the radius of convergence.

