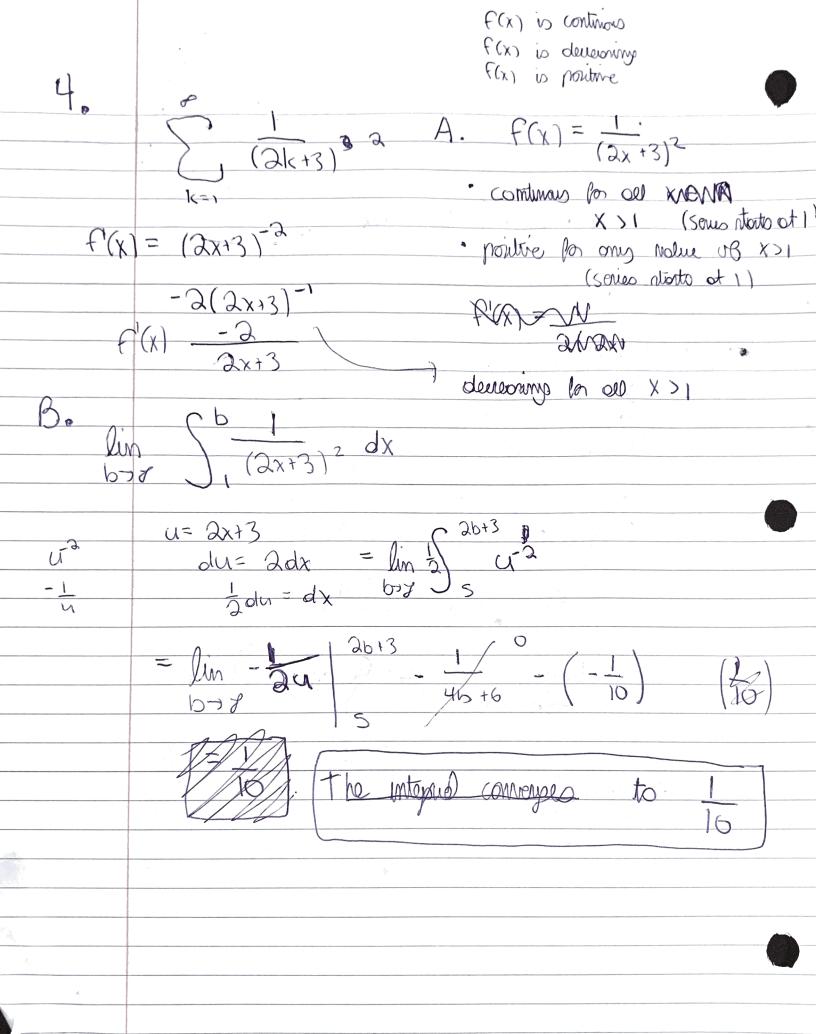
$$\begin{array}{c} G_{(XY10)} & \prod_{X=1}^{N} \frac{1}{Y^{2}+Y} \\ A. 9 & G_{(X-1)(X^{2}+Y)} & dx & A + G_{(X-1)(X^{2}+Y)} \\ G_{(X-1)(X^{2}+Y)} & (X-1) & (X^{2}+Y) \\ G_{(X-1)(X^{2}+Y)} & + (G_{(X-1)}(X-1)) & G_{(X-1)} & 2du = dx \\ G_{(X-1)(X^{2}+Y)} & + (G_{(X-1)(X-1)}(X-1)) & G_{(X-1)} & 2du = dx \\ G_{(X-1)(X^{2}+Y)} & + (G_{(X-1)(X^{2}+Y)}) & G_{(X-1)(X^{2}+Y)} \\ G_{(X-1)(X^{2}+Y)} & +$$

cus -cus 1-5in2 5in2 +cus2 = 1  $COS^2 = 1 - sin^2O^2 A^2 - X^2 = sin sub \frac{1}{sin} - sin$  $2. \int \frac{\sqrt{9-x^2}}{x} \qquad x = 3\sin\theta \quad dx = 3\cos\theta \, d\theta$ = \ \ 9-(3sino)^2 . 3cuso do  $= (\sqrt{9 - 9\sin^2\alpha} \cdot 3\cos\alpha d\alpha)$ 3 sina (19tos20 · 3cust do  $= \frac{3\cos^2\theta}{8\sin\theta} d\theta$ the sin - cus = ( coto coso  $= \frac{1-\sin^2\theta}{\sin\theta} = \frac{1-\sin^2\theta}{$ = (csco - sino do In (scor - cotor) + cosor + C,  $X = 3\sin\theta \qquad A^2 + \chi^2 = 9$ X = Sing A= 9-X2 = \( 9-x^2 \)  $= \ln \left| \frac{3}{\chi} - \sqrt{9 - \chi^2} \right| + \sqrt{9 - \chi^2} + C$ X



· Diroyeme test k3+2k-1 4+ 5k3 · Integral diverges by the divergence tests cos 3 does not equal () 1+7) Converges pus