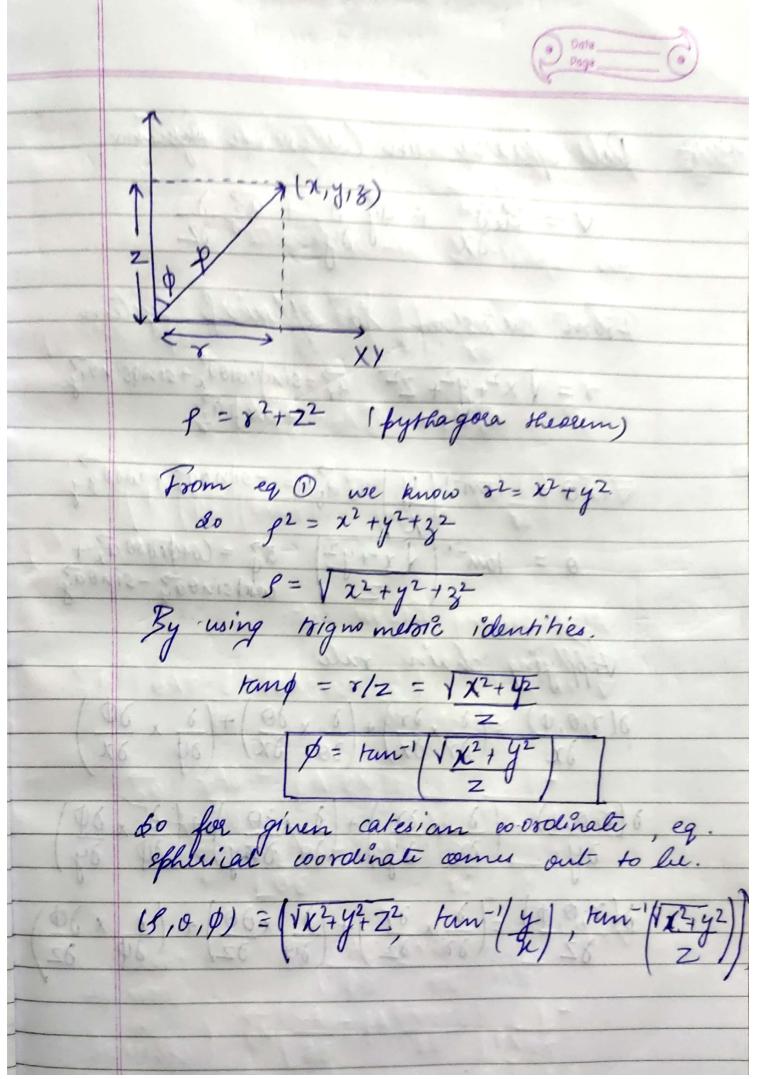
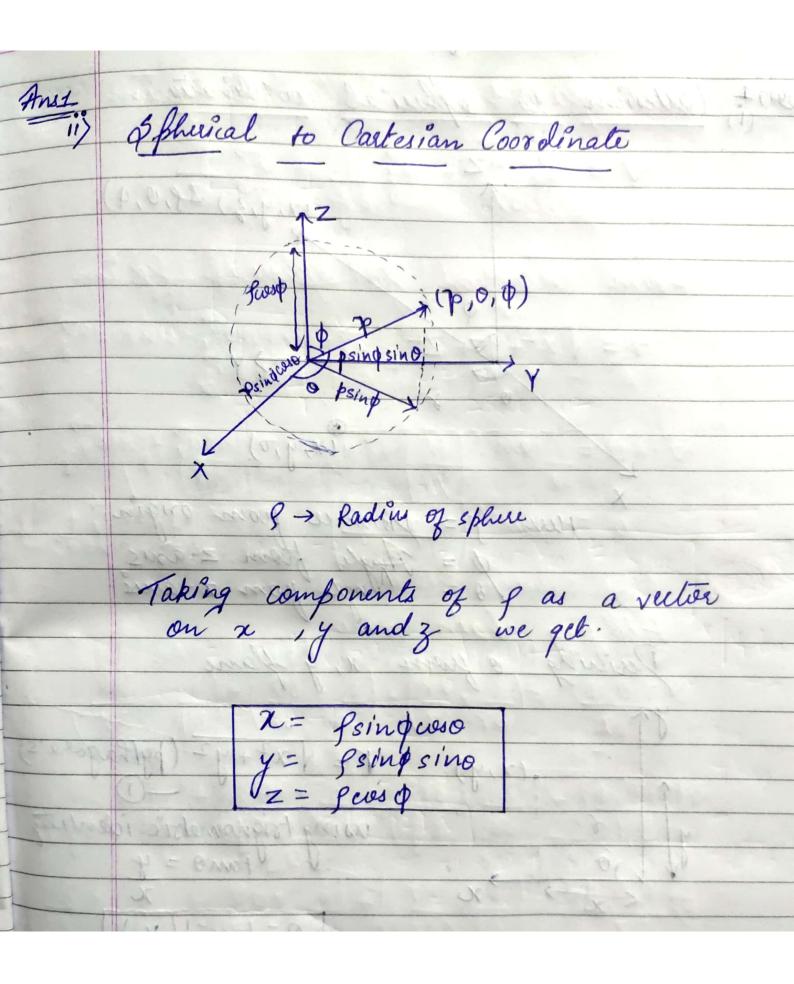
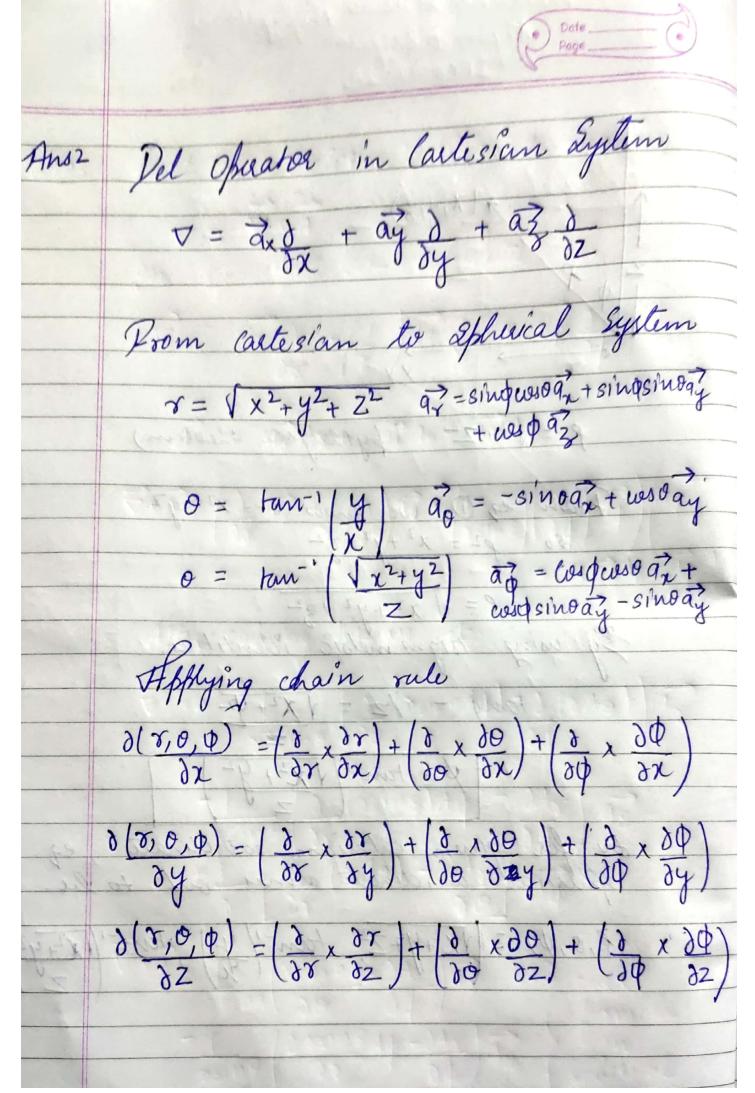
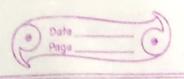
Chandan Ahire TECRO19053 AWP- assignment Ani-1 Carrian to ofhercal coordinates 12,4,3)=(9,0,9) Hu g = Distance from origin Ø = Apple from z-anis. Ø = Apple from z-anis o from x, y flance r= 1x2+y2 (pythagora's using trignometric identity 0 = tan-1/4 Daining of and of from Z-XX plane









Calculating derived required derivatives:

$$\frac{\partial Y}{\partial x} = \frac{\partial (x^2 + y^2 + z^2)}{\partial x} = \frac{x}{\sqrt{x^2 + y^2}} = \frac{x}{\sqrt{x^2 + y^2}} = \frac{\cos \sin \phi}{\sqrt{x^2 + y^2}}$$

$$\frac{\partial \phi}{\partial x} = \frac{\partial}{\partial x} \left[\frac{\tan^{-1}(\sqrt{x^2 + y^2})}{(x^2 + y^2)} \right] = \frac{x^2}{\sqrt{x^2 + y^2}} = \frac{\sin \phi}{\sin \phi}$$

$$\frac{\partial \phi}{\partial x} = \frac{\partial}{\partial x} \left[\frac{\tan^{-1}(\sqrt{x^2 + y^2})}{2} \right] = \frac{x^2}{\sqrt{x^2 + y^2}} =$$

