Online class # 01

Date: 22/06/2021

Chapter 04 (gradient)

Time: 0930 - 1040

Video: https://youtu.be/S-qluo4oC-0



 $\nabla \phi = i \frac{\partial \phi}{\partial x} + 3 \frac{\partial \phi}{\partial y} + 4 \frac{\partial \phi}{\partial z}$ Gradient and p, and of p, Tp す マヤニ 6 7 7 2 2 1 + 3 が 2 3 + 9 x y 至 子 D(4,4,7) = 37/42



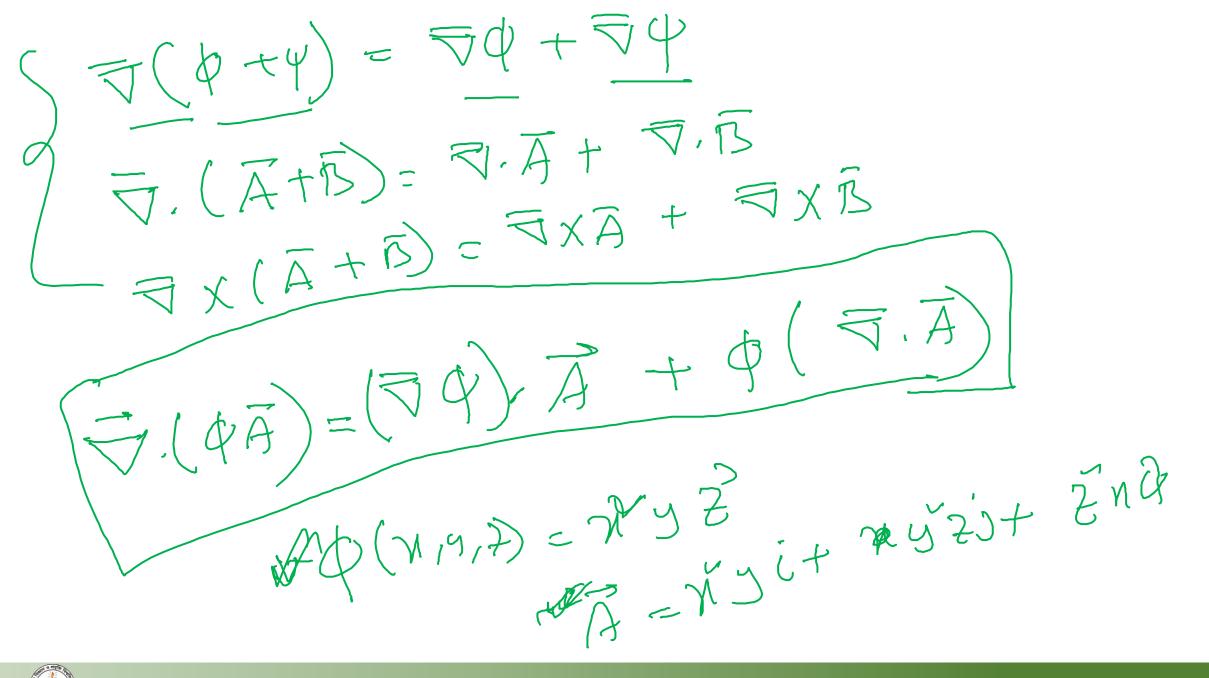
Divergence

$$\overrightarrow{A}(x,y,z) = A_1 \overrightarrow{l} + A_5 \overrightarrow{j} + A_7 \overrightarrow{k}$$

$$A(n,y,z) = xi + y3 + 2i$$
 $A(n,y,z) = xi + y3 + zi$ 

A= がらじナ グラシナ 芝x 子  $\overline{A} = 2(ny + y2 + 2n)$ 

(n,4,7) = Ani + Asi + Azi)







1-6, 10, 12 42-52 42-52 1+.kb.

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17) = T = (N+5+2)

 $\frac{1}{\sqrt{2}} = \frac{1}{2} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}}$