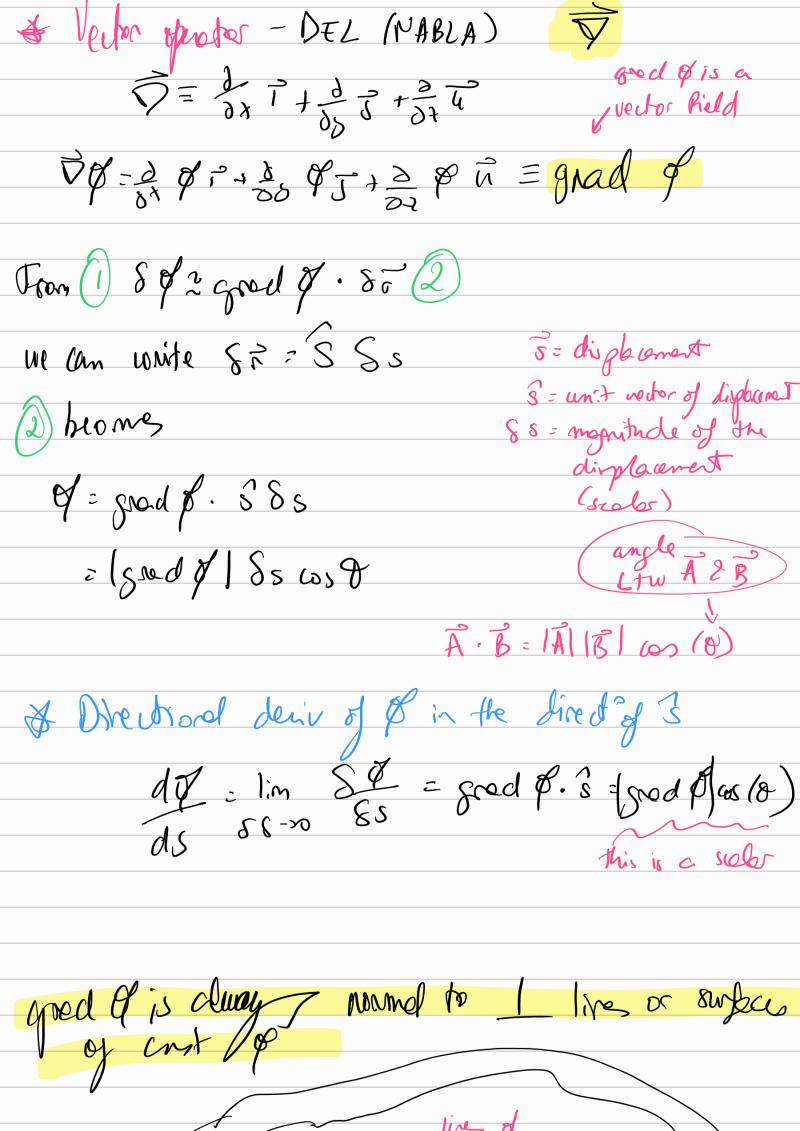
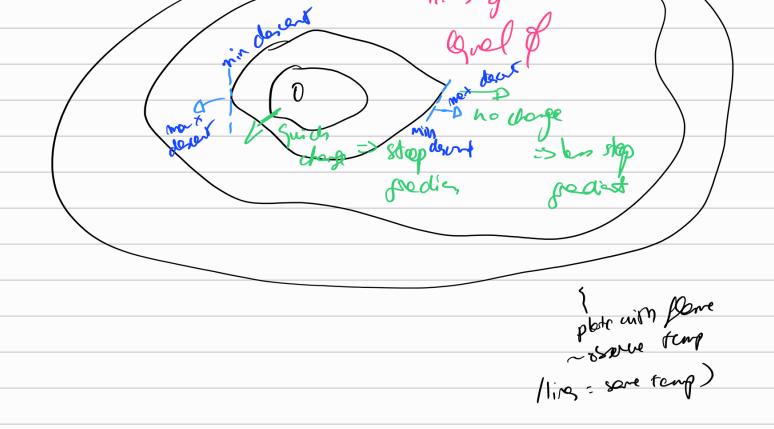
Scalar hield P(r) or P(x,y,z) vector field a(r) or a(x,y,2) P(x,y,7) good.ont of a scaler field (Ange in \$1.8\$) = \$1x+8x, y+8y, 2+8z)
-\$1x,y, 2) Heriol dairy  $\frac{\partial \mathcal{G}}{\partial x} = \lim_{x \to 0} \frac{\partial (x, y + \delta y, x + \delta x)}{-\partial (x, y + \delta y, x + \delta x)}$ So 8/x +5x,7+83,7+87) -8(x,7,2) 2 7 87 ve do the some for the y & 7 directs from the took change in S is the E of the changes in the type of directs  $88 = \frac{39}{3x} 8x + \frac{38}{35} 8y + \frac{39}{32} 37 (1)$ 





of if 
$$\theta = \sin(x^2 - \lambda y)$$
, find god  $\theta$ 

$$\nabla \theta = \frac{\lambda}{\delta^{\lambda}} \theta = \frac{\lambda}{\delta \delta} \theta = \frac{\lambda}{\delta} \theta = \frac{\lambda}{\delta}$$

TODO (wedlend)

In EM 1 year 1) you need = (eledne)

Field) V (eledni potential)

Vis 2 solo held V(xy,7)

£ 2 v are related by £= gred V

Lot V= 9

4117 Er

Show that £ = -9/47 Er

