1.2 (b)
Layon Infit Outfit Linea 1 à Wat 61) = 21 Shaba max (ō, Wxaba): j, = z2 Lineage 2 y 52) - 4 501 3 wy. 162) wy, 162) = ý Loss ý 1ý-y1/2 ("dentify act.) 221216/11 E Rd2m1 Now, $\frac{\partial Q}{\partial z_2} = \frac{\partial Z}{\partial z_3} = \frac{\partial Z}{\partial z_2} = \frac{\partial Z}{\partial z_3} = \frac{\partial Z}{$ $di^{2i'}$ $dz^{2i'}$ $dz^{2i'}$ $\frac{d^{2}}{dw^{(1)}} = \frac{d^{2}}{dz} \cdot \frac{dz}{dw_{1}} = \frac{d^{2}}{dz} \cdot \frac{dz}{dw_{1}} = \frac{d^{2}}{dz} \cdot \frac{dz}{dw_{1}}$ working all here, de = de «des » zz = de «de « [(w') 2+ 6') +]

d! = [W] de o (w''n+6") > 0)] * n7 di = [w] di (w') n + 6(1) >0)]

dig = (diff identy)

dig = Identy

dig = Identy

dig = Identy (∂) Relugrad. $(\omega^{(1)} \times 16^{(1)} \times 0)$ = (2, 20) = $(\omega^{(1)} \times 16^{(1)} \times 0)$ I deally ron d'Herre false

1.3. (a) with \$ 292 0 - the forward han egn's change accordingly. $\neg \sigma'(r) > \sigma(r) (1 - \sigma(r)) \leftarrow \text{elevel with product}$ desiratre chayes

(b) d(g,y) = -1 st y: (ag(g;) + (-yi) (g(1-g;) de = -1 [491/g: - (1-45)/(1-gi)] -, make vector, just descivative changes.

(c) Using a 'o' for intermediate activations gresults in a high probability that the gradients will explade as die.