

$$A^{(i)} = \chi(Z^{(i)})$$

$$A^{(i)} = Z^{(i)} = W^{(i)} A^{(i)} + b^{(i)}$$

$$Z^{(i)} = \sigma(Z^{(i)})$$

$$= W^{(i)} (W^{(i)} A^{(i)} + b^{(i)}) + b^{(i)}$$

$$= W^{(i)} (W^{(i)} A^{(i)} + b^{(i)}) + b^{(i)}$$

$$= W^{(i)} + W^{(i)} + b^{(i)} + b^{(i)} + b^{(i)}$$

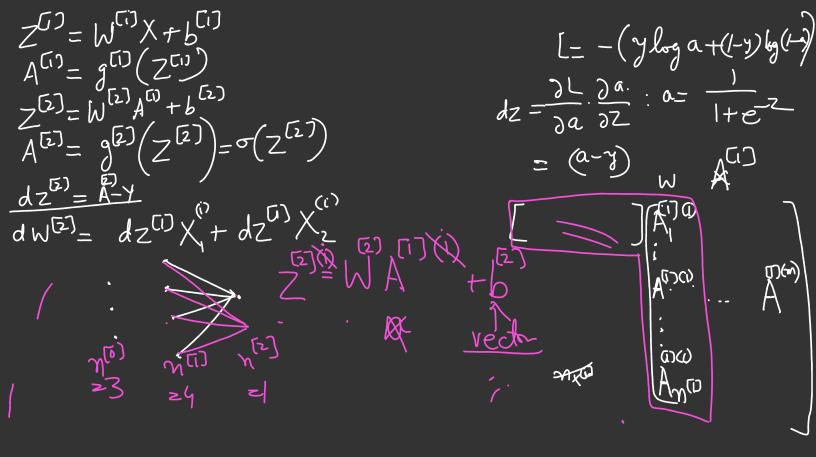
$$= W^{(i)} + W^{(i)} + b^{(i)} + b^{(i)} + b^{(i)}$$

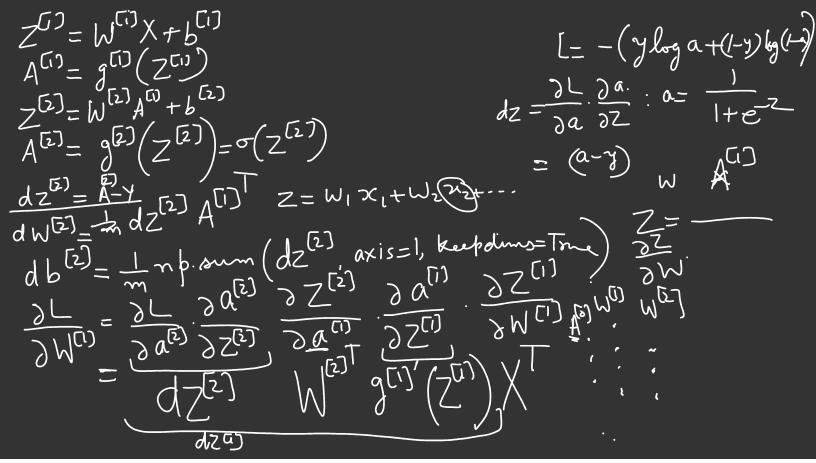
$$= W^{(i)} + W^{(i)} + b^{(i)} + b^{(i)} + b^{(i)} + b^{(i)}$$

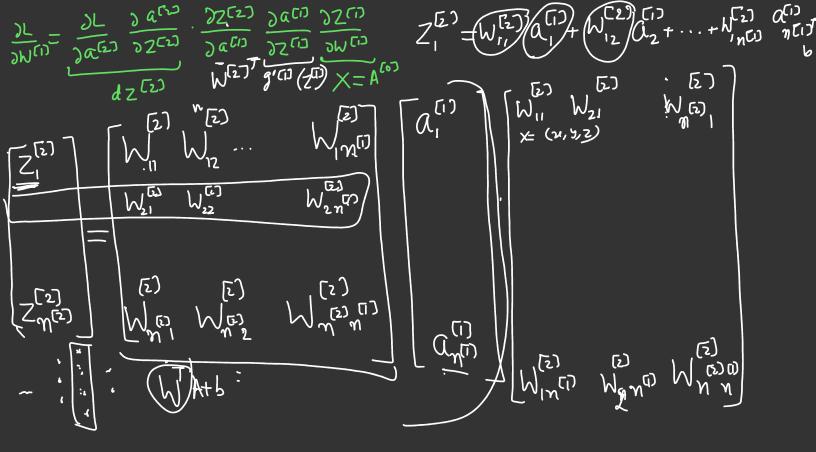
$$= W^{(i)} + W^{(i)} + b^{(i)} + b^{(i)} + b^{(i)} + b^{(i)} + b^{(i)}$$

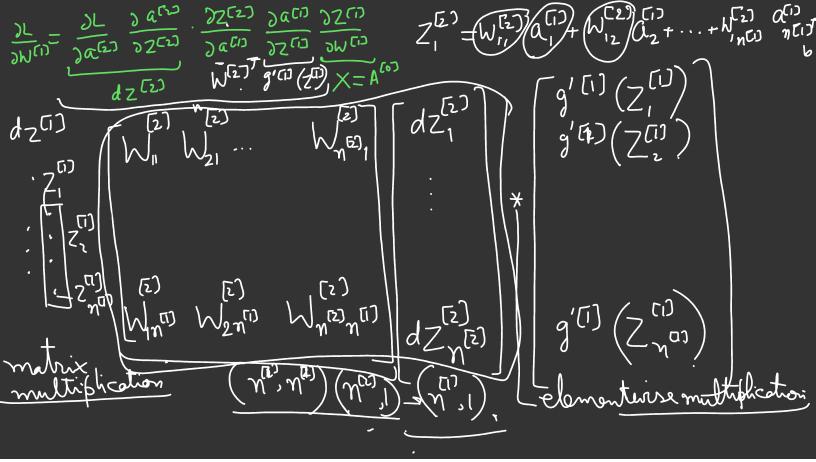
$$= W^{(i)} + W^{(i)} + W^{(i)} + b^{(i)} + b^{($$

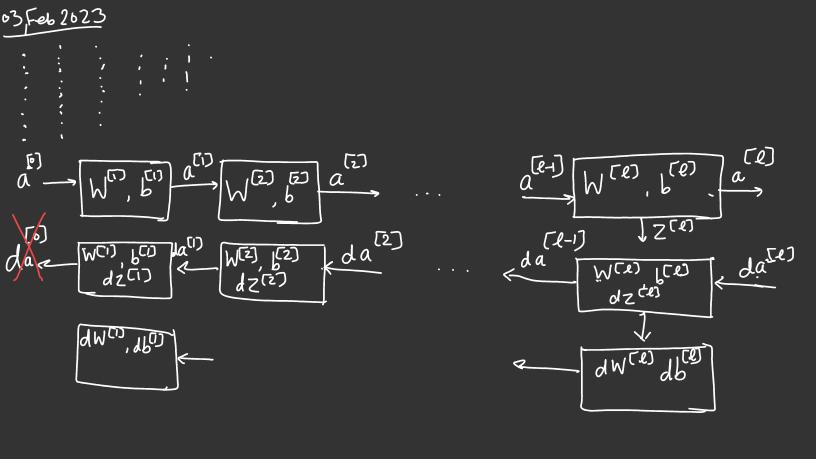
Redifie linear unit  $a(z) = Z, id z \neq 0$   $= e^{z} - e^{-z}$   $= e^{z} - e^{z}$   $= e^{z} - e^{z}$ 











$$dz^{(l)} = dA^{(l)} = g^{(l)}(z^{(l)})$$

$$dw^{(l)} = \frac{1}{m} dz^{(l)} A^{(l-1)T}$$

$$db^{(l)} = \frac{1}{m} np. sum (dz^{(l)}, axis = 1, keepdims= true)$$

$$dA^{(l-1)} = W^{(l)} dz^{(l)}$$