P_1 :

$$\frac{\partial J}{\partial x} = \frac{\partial J}{\partial y} \times \frac{\partial Y}{\partial z} \times \frac{\partial z}{\partial X}.$$

$$\frac{\partial J}{\partial w} = \frac{\partial J}{\partial Y} \cdot \frac{\partial Y}{\partial z} \times \frac{\partial z}{\partial w} = \frac{\partial J}{\partial z} \times X.$$

$$\frac{\partial J}{\partial b} = \frac{\partial J}{\partial Y} \cdot \frac{\partial Y}{\partial z} \times \frac{\partial z}{\partial b} = \frac{\partial J}{\partial z}$$