$$\frac{\partial l}{\partial \beta} = \frac{1}{|z_1|} \frac{\partial l}{\partial y_1}$$

$$\frac{\partial l}{\partial \gamma} = \frac{1}{|z_1|} \frac{\partial l}{\partial y_2}$$

$$\frac{\partial l}{\partial \gamma} = \frac{\partial l}{\partial \gamma} \times \frac{1}{|z_1|} \frac{\partial \gamma}{\partial \gamma}$$

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$$= \frac{(1 - \frac{1}{|z_1|})}{|z_2|} \times \frac{\partial l}{|z_2|} \frac{\partial \gamma}{\partial \gamma}$$

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$$= \frac{(1 - \frac{1}{|z_1|})}{|z_2|} \times \frac{\partial l}{|z_2|} \times \frac{\partial l}{|z_2|} \frac{\partial \gamma}{\partial \gamma}$$

$$= \frac{1}{|z_1|} \times \frac{|z_1|}{|z_1|} \times \frac{|z_1|}{|z_2|} \times$$