ImageNet Classification with Deep Convolutional Neural Networks Notes

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September 2019

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1 Review: Stuff to Have Memorized

1.1 Trig Functions and Derivatives

$$\begin{array}{ll} \frac{d}{dx}sin(x) = cos(x) & \frac{d}{dx}csc(x) = -csc(x)cot(x) \\ \frac{d}{dx}cos(x) = -sin(x) & \frac{d}{dx}sec(x) = sec(x)tan(x) \\ \frac{d}{dx}tan(x) = sec^2(x) & \frac{d}{dx}cot(x) = -csc^2(x) \end{array}$$

$$a_1 = b_1 + c_1 \tag{1}$$

$$a_2 = b_2 + c_2 - d_2 + e_2 (2)$$

$$\begin{bmatrix} \alpha & \beta^* \\ \gamma^* & \delta \end{bmatrix} \tag{3}$$

$$a_{11}$$
 (4)

$$a_{21} = b_{21} \tag{5}$$

Lemma 1. Tsjflksajflks

Proof of the Main Theorem.

$$G(t) = L\gamma! t^{-\gamma} + t^{-\delta}\eta(t)$$
(6)

Proof.
$$(x+1)(x-1) + 1 = x(x-1) + 1(x-1) + 1$$

= $(x^2 - x) + (x-1) + 1$
= $x^2 + (-x + x) + (-1 + 1)$
= x^2

Intermediate Value a balue in between