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$$\frac{\overrightarrow{\alpha}^{(1)}}{\overrightarrow{\alpha}^{(2)}} = W_{\bullet}^{(1)} \overrightarrow{\alpha}^{(0)} + \overrightarrow{b}^{(1)}$$

$$\frac{\overrightarrow{\alpha}^{(2)}}{\overrightarrow{\alpha}^{(3)}} = W_{\bullet}^{(2)} \overrightarrow{\alpha}^{(1)} + \overrightarrow{b}^{(2)}$$

$$\frac{\overrightarrow{\alpha}^{(3)}}{\overrightarrow{\alpha}^{(3)}} = W_{\bullet}^{(3)} \overrightarrow{\alpha}^{(2)} + \overrightarrow{b}^{(3)}$$

$$\Rightarrow \vec{\alpha}^{(3)} = W^{(3)} \left[W^{(2)} (W^{0)} \vec{\alpha}^{(0)} + \vec{b}^{(1)}) + \vec{b}^{(2)} \right] + \vec{b}^{(3)}$$

$$\overrightarrow{Q}^{(3)} = W_2^{(1)} \overrightarrow{Q}^{(0)} + \overrightarrow{D}_2^{(0)}$$

$$W^{(3)} \left[W^{(2)} \left(W^{(0)} \vec{\alpha}^{(0)} + \vec{b}^{(0)} \right) + \vec{b}^{(2)} \right] + \vec{b}^{(3)} = W_{3}^{(1)} \vec{\alpha}^{(0)} + \vec{b}^{(0)}$$

$$W^{(3)}[W^{(2)}W^{(1)}\overrightarrow{a}^{(0)} + W^{(2)}\overrightarrow{b}^{(1)} + b^{(2)}] + b^{(3)} = W^{(1)}\overrightarrow{a}^{(0)} + b^{(1)}$$

$$(W^{(3)}W^{(2)}W^{(1)}) = (W^{(3)}W^{(2)}) + (W^{(3)}W^{(2)}) + (W^{(3)}) +$$

$$= \frac{1}{2} \left(\frac{W_{2}^{(1)}}{W_{2}^{(1)}} = W_{2}^{(3)} W_{2}^{(2)} W_{3}^{(1)} + W_{3}^{(2)} + W_{$$

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