Overtion 2.

Civen that:
$$\int \vec{a}^{(1)} = W^{(1)} \vec{a}^{(0)} + \vec{b}^{(1)}$$

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

for
$$\vec{a}^{(3)} \approx \vec{W} \vec{a}^{(0)} + \vec{b}$$

 $\{ \vec{W} \approx W^{(3)} W^{(1)} W^{(1)} \}$
 $\{ \vec{W} \approx W^{(3)} W^{(1)} W^{(1)} \}$
 $\{ \vec{W} \approx W^{(3)} W^{(1)} + W^{(2)} \vec{b}^{(1)} + \vec{b}^{(2)} \}$