1.
$$(3) \overrightarrow{X}^{W} = \overrightarrow{X}_{AVG} = (3) \overrightarrow{B}^{2} = (3)$$

$$= \frac{d}{dt} \left(\frac{1}{X} \frac{|\vec{B}|^2}{\vec{B} \cdot \vec{\Delta}} \right)$$

$$= \frac{d}{dt} \left(\frac{1}{X} \frac{|\vec{B}|^2}{\vec{B} \cdot \vec{\Delta}} + \frac{1}{X} \frac{d}{AVG} \frac{d}{dt} \frac{|\vec{B}|^2}{\vec{B} \cdot \vec{\Delta}} \right)$$

$$= \frac{1}{\sqrt{AVG}} \frac{|\vec{B}|^2}{|\vec{B}| \cdot \vec{\Delta}} + \frac{1}{\sqrt{AVG}} \frac{\vec{B} \cdot \vec{\Delta}}{|\vec{B}| \cdot \vec{\Delta}} + \frac{1}{\sqrt{AVG}} \frac{\vec{A} \cdot \vec{A}}{|\vec{A}| \cdot \vec{A}} + \frac{1}{\sqrt{AVG}} \frac{\vec{A} \cdot \vec{A}}{|\vec{A}| \cdot \vec{A}} + \frac{1}{\sqrt{AVG}} \frac{\vec{A}$$

And we know:
$$3 = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$X = X_{AVG} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$
And we know: $3 = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$

and we know:
$$B = \begin{bmatrix} b \\ 0 \end{bmatrix} = \begin{bmatrix} c \\ c \\ f \end{bmatrix}$$

$$A = X_L - X_R = \begin{bmatrix} c \\ c \\ f \end{bmatrix} - \begin{bmatrix} c \\ c \\ f \end{bmatrix} = \begin{bmatrix} c \\ c \\ f \end{bmatrix}$$

$$\frac{d\vec{\Delta}}{dt} = \begin{bmatrix} \vec{\xi} \\ \vec{v} \end{bmatrix}$$

$$\frac{|\vec{B}|^2}{|\vec{A}|^2} = \vec{X} \times \frac{\vec{B} \cdot d\vec{\Delta}}{|\vec{B}|^2} = \vec{X} \times \frac{\vec{B} \cdot d\vec{\Delta}}{|\vec{B}|^2} = fron$$

$$= \begin{bmatrix} 0 \\ 0 \\ \hline \end{bmatrix} \begin{bmatrix} \overline{B} \\ \overline{B} \\ \hline \end{bmatrix} \begin{bmatrix} \overline{B} \\ \overline{A} \\ \overline{B} \\ \overline{A} \end{bmatrix} \begin{bmatrix} \overline{B} \\ \overline{B} \\ \overline{A} \\ \overline{B} \\ \overline{A} \end{bmatrix} \begin{bmatrix} \overline{B} \\ \overline{B} \\ \overline{A} \\ \overline{B} \\ \overline{A} \end{bmatrix}$$

$$= \begin{bmatrix} 0 \\ 0 \\ \overline{B} \\ \overline{A} \\$$

 $= -\begin{bmatrix} 0 \\ 0 \\ f \end{bmatrix} \xrightarrow{bc} \cdot \frac{bc}{bc} = -\begin{bmatrix} 0 \\ 0 \\ f \end{bmatrix} \cdot \frac{b}{c}$

= [65]

$$= -\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} \frac{b}{b^2} \\ \frac{c}{b^2} \end{bmatrix} \begin{bmatrix} \frac{b}{b} \\ \frac{c}{b^2} \\ \frac{c}{b^2} \end{bmatrix}$$

$$= -\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} \frac{b}{b} \\ \frac{c}{b^2} \\ 0 \end{bmatrix}$$

$$= -\begin{bmatrix} 0 \\ 0 \\ \frac{b}{b^2} \end{bmatrix} \begin{bmatrix} \frac{b}{b} \\ \frac{c^2}{b^2} \\ \frac{c^2}{b^2} \end{bmatrix}$$

O

plugin these 2 into the equation, you will find it easy to prove. All is about match.