2. 
$$A = \begin{pmatrix} 0.0 & -u_1 \cdot \sin(X_s) \\ 0.0 & u_1 \cdot (\cos(X_s)) \end{pmatrix}$$
 $B_0 = \begin{pmatrix} \cos(X_s) & 0 \\ \sin(x_s) & u_1 \cdot (\tan(x_1)/L) \end{pmatrix}$ 
 $B_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ 0 & -U_1^2 \cdot \cos(X_s) \cdot (\tan(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ 0 & -U_1^2 \cdot \cos(X_s) \cdot (\tan(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ 0 & -U_1^2 \cdot \cos(X_s) \cdot (\tan(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (i_1(\tan(x_1)/L) + 2i_1(\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (i_1(\tan(x_1)/L) + 2i_1(\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (i_1(\tan(x_1)/L) + 2i_1(\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (i_1(\tan(x_1)/L) + 2i_1(\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - A(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (i_1(\tan(x_1)/L) + 2i_1(\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{B}_0(s) - \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(X_s) \cdot (\tan(x_1)/L) \\ (i_2(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{A}(s)B(s) + \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(x_1) \cdot (\cos(x_1)/L) \\ (i_1(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_2 = \dot{A}(s)B(s) + \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(x_1) \cdot (\cos(x_1)/L) \\ (i_1(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_1 = \dot{A}(s)B(s) + \dot{A}(s)B(s) = \begin{pmatrix} 0 & U_1^2 \cdot \sin(x_1) \cdot (\cos(x_1)/L) \\ (i_1(\tan(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \cdot (\sin(x_1)/L) \end{pmatrix}$ 
 $b_2 = \dot{A}(s)B(s) + \dot$