## 52-2017-09-27-i-have-wrong-definition-for-A

/Volumes/lacie/aaa/packages/gatars/gails-stuff/01-examples-for-help-files

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$$A_1 = \alpha_1 J + \alpha_2 I$$

$$A_2 = \alpha_3 J + \alpha_4 I$$

$$A = \begin{pmatrix} A_1 + A_2 & -A_1 \\ -A_1 & A_1 - A_2 \end{pmatrix}$$

When 
$$\alpha_1 = 1$$
, I get  $A_1 = J$ ,  $A_2 = 0$  and  $A = \begin{pmatrix} J & -J \\ -J & J \end{pmatrix}$ 

When 
$$\alpha_2 = 1$$
 I get  $A_1 = I$ ,  $A_2 = 0$  and  $A = \begin{pmatrix} I & -I \\ -I & I \end{pmatrix}$ 

When 
$$\alpha_4 = 1$$
 I get  $A_1 = 0$ ,  $A_2 = I$  and  $A = \begin{pmatrix} I & 0 \\ 0 & -I \end{pmatrix}$ 

However, this is a possiblity

$$\alpha_3 = 1$$
, so  $A_1 = 0$ ,  $A_2 = J$  and  $A = \begin{pmatrix} J & 0 \\ 0 & -J \end{pmatrix}$ 

I believe B, S, T, BS, BT, and ST are correct, but BST is optimized over many more points than described in Equation (7)