How to write custom functions for tVar Calculating the angle between two vectors  $\,$ 

$$\vec{a} = \begin{pmatrix} 3,000\\0,000\\0,000 \end{pmatrix} \tag{1}$$

$$\vec{b} = \begin{pmatrix} 4,000 \\ 4,000 \\ 0,000 \end{pmatrix} \tag{2}$$

$$\vec{a_n} = \frac{\vec{a}}{\sqrt{\vec{a} \cdot \vec{a}}} = \begin{pmatrix} 1,000\\0,000\\0,000 \end{pmatrix} \tag{3}$$

$$\vec{b_n} = \frac{\vec{b}}{\sqrt{\vec{b} \cdot \vec{b}}} = \begin{pmatrix} 0.707 \\ 0.707 \\ 0.000 \end{pmatrix} \tag{4}$$

$$\alpha = deg(acos(\vec{a_n} \cdot \vec{b_n})) = 45,000 \tag{5}$$

Calculating the angle between two vectors with custom functions

$$\vec{a_n} = |\vec{a}| = \begin{pmatrix} 1,000\\0,000\\0,000 \end{pmatrix} \tag{6}$$

$$\vec{b_n} = |\vec{b}| = \begin{pmatrix} 0.707 \\ 0.707 \\ 0.000 \end{pmatrix} \tag{7}$$

$$\alpha = deg(acos(\vec{a_n} \cdot \vec{b_n})) = 45,000 \tag{8}$$