Det
$$\hat{h}_{H} = (\chi_{2}, 0, \chi_{2})$$
. Show $R_{RH} = (180^{\circ}) = iH$

Defends rotation
$$R_{R} = (0) = e^{-i\frac{\pi}{2}} (n^{\circ})$$

Lets compute
$$\hat{h} = (\chi_{2}, 0, \chi_{2}) = (n^{\circ})$$

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We can write,

$$= \begin{pmatrix} 2 & 1 - i & 2 & 0 \\ 2 & 1 - i & 2 & 0 \end{pmatrix} \begin{pmatrix} 9 & 1 - i & 2 \\ 2 & 1 - i & 0 \end{pmatrix}$$

$$= \begin{pmatrix} 2 & 1 - i & 0 \\ 1 - i & 0 \end{pmatrix} - i & 0 \\ = \begin{pmatrix} 2 & 1 - i & 0 \\ 1 & 0 \end{pmatrix} - i & 0 \\ = \begin{pmatrix} 2 & 1 + i & 0 \\ 1 & 0 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix} = i & 0 \\ \end{pmatrix}$$

$$= \begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 1 & 0 \end{pmatrix} = i & 0 \\ \end{pmatrix}$$

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... Rô(tr) = -iH Poroved