$$R = \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 1/2 & 0 & 0 & 1/2 \end{bmatrix}$$

The
$$R = (e/2, b, c, d + e/2) = (b, c, d, e)$$

$$e/2 = b = c$$

$$d + e/2 = e$$

$$d = 3/2 e$$

$$To = \frac{(1, 1, 3, 2)}{7}$$

Two
$$R = \pi \omega$$
 would yield $(b, c, a, e) \equiv (e, b, c, d)$