$$\left(\begin{array}{cc} -\mathbf{1} & \mathbf{0} \\ \mathbf{0} & -\mathbf{1} \end{array}\right)$$

$$\left(\begin{array}{ccc} -\dot{\mathbb{1}} & \mathbf{0} \\ \mathbf{0} & -\dot{\mathbb{1}} \end{array}\right)$$

$$\left(\begin{array}{cc} \mathbb{i} & \mathbf{0} \\ \mathbf{0} & \mathbb{i} \end{array}\right)$$

$$\left(\begin{smallmatrix}\mathbf{1} & \mathbf{0} \\ \mathbf{0} & \mathbf{1}\end{smallmatrix}\right)$$

$$\left( \begin{array}{cc} -3^{-m/2} & -2 \, \text{Sinh} \left[ \, \frac{1}{2} \, m \, \text{Log} \, [\, 3 \, ] \, \right] \\ -3^{-m/2} & 3^{-m/2} \end{array} \right)$$

$$\left( \begin{array}{ll} -\text{i} \ 3^{-m/2} & -2 \ \text{i} \ \text{Sinh} \left[ \frac{1}{2} \ \text{m} \ \text{Log} \left[ 3 \right] \right] \\ -\text{i} \ 3^{-m/2} & \text{i} \ 3^{-m/2} \end{array} \right)$$

$$\left( \begin{array}{ll} \text{$\stackrel{\cdot}{\text{$1$}}$ $3^{-m/2}$} & 2 \, \text{$\stackrel{\cdot}{\text{$1$}}$ $Sinh} \left[ \frac{1}{2} \, \text{$m$ Log} \left[ 3 \, \right] \, \right] \\ \text{$\stackrel{\cdot}{\text{$1$}}$ $3^{-m/2}$} & - \text{$\stackrel{\cdot}{\text{$1$}}$ $3^{-m/2}$} \end{array} \right)$$

$$\left( \begin{array}{ll} 3^{-m/2} & 2 \, \text{Sinh} \left[ \, \frac{1}{2} \, m \, \text{Log} \, [ \, 3 \, ] \, \right] \\ 3^{-m/2} & -3^{-m/2} \end{array} \right)$$