

$\frac{16 \left(Deltax^2 \Sigma_t \Sigma_{rem, 1} - 120 \right)}{15 Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{64}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{16 \left(Deltax^2 \Sigma_t \Sigma_{rem, 1} + 120 \right)}{15 Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{64}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$0 \ 0$	$1-\frac{672 \Sigma_t + 648 \Sigma_{rem, 1}}{7 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{-336 \Sigma_t - 324 \Sigma_{rem, 1}}{7 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{144}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{672}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{1944}{7 Deltax^2 \Sigma_t^2}$	$\frac{1296}{Deltax^2 \Sigma_t^2}$
$-\frac{64}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{16 \left(Deltax^2 \Sigma_t \Sigma_{rem, 1} - 120 \right)}{15 Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{64}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{16 \left(Deltax^2 \Sigma_t \Sigma_{rem, 1} + 120 \right)}{15 Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$0 \ 0$	$\frac{-336 \Sigma_t - 324 \Sigma_{rem, 1}}{7 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1}}$	$1-\frac{672 \Sigma_t + 648 \Sigma_{rem, 1}}{7 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1}}$	$-\frac{144}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{672}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$-\frac{1944}{7 Deltax^2 \Sigma_t^2}$	$\frac{1296}{Deltax^2 \Sigma_t^2}$
$\frac{768}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}-\frac{2}{5}$	$\frac{576}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$1+\frac{768}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{576}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$0 \ 0$	$\frac{-1512 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1} + 20160 \Sigma_t + 19440 \Sigma_{rem, 1}}{245 Deltax^3 \Sigma_t^3 \Sigma_{rem, 1}}$	$\frac{-378 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1} + 15120 \Sigma_t + 14580 \Sigma_{rem, 1}}{245 Deltax^3 \Sigma_t^3 \Sigma_{rem, 1}}$	$-\frac{432}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$-\frac{720}{Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{1134 Deltax^2 \Sigma_t^2 - 5832}{49 Deltax^3 \Sigma_t^3}$	$\frac{378 Deltax^2 \Sigma_t^2 - 9720}{7 Deltax^3 \Sigma_t^3}$
$\frac{576}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{768}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{576}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$1+\frac{768}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$0 \ 0$	$\frac{-378 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1} + 15120 \Sigma_t + 14580 \Sigma_{rem, 1}}{245 Deltax^3 \Sigma_t^3 \Sigma_{rem, 1}}$	$\frac{-1512 Deltax^2 \Sigma_t^2 \Sigma_{rem, 1} + 20160 \Sigma_t + 19440 \Sigma_{rem, 1}}{245 Deltax^3 \Sigma_t^3 \Sigma_{rem, 1}}$	$\frac{432}{7 Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$-\frac{720}{Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{-1134 Deltax^2 \Sigma_t^2 + 5832}{49 Deltax^3 \Sigma_t^3}$	$\frac{378 Deltax^2 \Sigma_t^2 - 9720}{7 Deltax^3 \Sigma_t^3}$
$1+\frac{128 D_0}{3 Deltax}$	$\frac{32 D_0}{3 Deltax}$	$\frac{128 D_0}{3 Deltax}$	$\frac{32 D_0}{3 Deltax}$	$0 \ 0$	$\frac{32 D_0}{Deltax}$	$\frac{8 D_0}{Deltax}$	$-\frac{60 D_0}{Deltax}$	$-\frac{140 D_0}{Deltax}$	0	0
$\frac{32 D_0}{3 Deltax}$	$1+\frac{128 D_0}{3 Deltax}$	$\frac{32 D_0}{3 Deltax}$	$\frac{128 D_0}{3 Deltax}$	$0 \ 0$	$\frac{8 D_0}{Deltax}$	$\frac{32 D_0}{Deltax}$	$\frac{60 D_0}{Deltax}$	$-\frac{140 D_0}{Deltax}$	0	0
0	0	0	0	$1 \ 0$	$\frac{16 D_2}{Deltax}$	$\frac{4 D_2}{Deltax}$	0	0	$-\frac{60 D_2}{Deltax}$	$-\frac{140 D_2}{Deltax}$
0	0	0	0	$0 \ 1$	$\frac{4 D_2}{Deltax}$	$\frac{16 D_2}{Deltax}$	0	0	$\frac{60 D_2}{Deltax}$	$-\frac{140 D_2}{Deltax}$

(1)

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$$\left[\begin{array}{cccccccccccc}0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\end{array}\right]$$

$$\left[\begin{array}{cccccccccccc}0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\\0&0&0&0&0&0&0&0&0&0&0&0&0&0\end{array}\right]$$

(3)

$\frac{72}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{972}{7 Deltax^2 \Sigma_t^2}$
$\frac{72}{Deltax^2 \Sigma_t \Sigma_{rem, 1}}$	$\frac{972}{7 Deltax^2 \Sigma_t^2}$
$-\frac{72}{Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{54 Deltax^2 \Sigma_t^2 - 972}{7 Deltax^3 \Sigma_t^3}$
$-\frac{72}{Deltax^3 \Sigma_t^2 \Sigma_{rem, 1}}$	$\frac{54 Deltax^2 \Sigma_t^2 - 972}{7 Deltax^3 \Sigma_t^3}$
$-\frac{20 D_0}{Deltax}$	0
$-\frac{20 D_0}{Deltax}$	0
0	$-\frac{20 D_2}{Deltax}$
0	$-\frac{20 D_2}{Deltax}$

(5)

$$\left[\begin{array}{cc} \frac{3\,Deltax+16\,D_0}{6\,\Sigma_{rem,\,0}\,Deltax^2} & \frac{-3\,Deltax-16\,D_0}{6\,\Sigma_{rem,\,0}\,Deltax^2} & \frac{8\,D_0}{3\,\Sigma_{rem,\,0}\,Deltax^2} & -\frac{8\,D_0}{3\,\Sigma_{rem,\,0}\,Deltax^2} & 0 & 0 & \frac{2\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & -\frac{2\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & 1 & 0 & -2 & 0 \\ \frac{Deltax+16\,D_0}{2\,\Sigma_{rem,\,0}\,Deltax^2} & \frac{Deltax+16\,D_0}{2\,\Sigma_{rem,\,0}\,Deltax^2} & \frac{8\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & \frac{8\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & 0 & 0 & \frac{6\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & \frac{6\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & 0 & 1 & 0 & -2 \\ 0 & 0 & 0 & 0 & \frac{1}{2\,\alpha\,Deltax} & -\frac{1}{2\,\alpha\,Deltax} & \frac{D_2}{\alpha\,Deltax^2} & -\frac{D_2}{\alpha\,Deltax^2} & -\frac{2\,\Sigma_{rem,\,0}}{5\,\alpha} & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & \frac{1}{2\,\alpha\,Deltax} & \frac{1}{2\,\alpha\,Deltax} & \frac{3\,D_2}{\alpha\,Deltax^2} & \frac{3\,D_2}{\alpha\,Deltax^2} & 0 & -\frac{2\,\Sigma_{rem,\,0}}{5\,\alpha} & 0 & 1 \\ \frac{2}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{2}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0 & 0 & \frac{5}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{5}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{5\,\alpha}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & \frac{5\,\alpha}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & 0 & 0 & \frac{10}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{10}{Deltax\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0 & 0 & 0 & 0 & 0 & 0 \end{array} \right]$$

(6)

$$\left[\begin{array}{cc} 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ \frac{2}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{2}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0 & \frac{5}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{5}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0\,0\,0\,0\,0\,0 \\ \frac{5\,\alpha}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & \frac{5\,\alpha}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & 0\,0 & \frac{10}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{10}{Deltay\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0\,0\,0\,0\,0\,0 \end{array} \right]$$

(7)

$$\left[\begin{array}{cc} 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ 0 & 0 & 0\,0 & 0 & 0 & 0\,0\,0\,0\,0\,0\,0 \\ \frac{2}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{2}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0 & \frac{5}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{5}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0\,0\,0\,0\,0\,0 \\ \frac{5\,\alpha}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & \frac{5\,\alpha}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})\,\Sigma_{rem,\,0}} & 0\,0 & \frac{10}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & \frac{10}{Deltaz\,(5\,\alpha-4\,\Sigma_{rem,\,0})} & 0\,0\,0\,0\,0\,0\,0 \end{array} \right]$$

(8)

$$\left[\begin{array}{cc} 0 & 0 \\ -\frac{6\,D_0}{\Sigma_{rem,\,0}\,Deltax^2} & 0 \\ 0 & 0 \\ 0 & -\frac{6\,D_2}{\alpha\,Deltax^2} \\ 0 & 1 \\ 1 & 0 \end{array} \right]$$

(9)