

Dormand-Prince 5(4) Parameters for Embedded Runga-Kutta Method							
$i$	$a_i$	$b_{ij}$				$c_i$	$c_i^*$
1						$\frac{35}{384}$	$\frac{5179}{57600}$
2	$\frac{1}{5}$					0	0
3	$\frac{3}{10}$		$\frac{9}{40}$			$\frac{500}{1113}$	$\frac{7571}{16695}$
4	$\frac{4}{5}$	$\frac{44}{45}$	$-\frac{56}{15}$	$\frac{32}{9}$		$\frac{125}{192}$	$\frac{393}{640}$
5	$\frac{8}{9}$	$\frac{19372}{6561}$	$-\frac{25360}{2187}$	$\frac{64448}{6561}$	$-\frac{212}{729}$	$-\frac{2187}{6784}$	$-\frac{92097}{339200}$
6	1	$\frac{9017}{3168}$	$-\frac{355}{33}$	$\frac{46732}{5247}$	$\frac{49}{176}$	$\frac{11}{84}$	$\frac{187}{2100}$
7	1	$\frac{35}{384}$	0	$\frac{500}{1113}$	$-\frac{2187}{6784}$	0	$\frac{1}{40}$
$j =$	1	2	3	4	5	6	