

Table 14-1

x	y	$\sin x$	$y \cdot \sin x$	$\cos x$	$y \cdot \cos x$	$\sin 3x$	$y \cdot \sin 3x$	$\cos 3x$	$y \cdot \cos 3x$	$\sin 5x$	$y \cdot \sin 5x$	$\cos 5x$	$y \cdot \cos 5x$	$\sin 7x$	$y \cdot \sin 7x$	$\cos 7x$	$y \cdot \cos 7x$
2.5	.0436	.9990	.9990	.1305	.1305	.9914	.9914	.2164	.2164	.9763	.9763	.3007	.3007	.9377	.9377	.6088	.6088
7.5	.1305	.9914	.9914	.3827	.3827	.7934	.7934	.6088	.6088	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
12.5	.2164	.9763	.9763	.7934	.7934	.6088	.6088	.9990	.9990	.4618	.4618	.3827	.3827	.9377	.9377	.6088	.6088
17.5	.3007	.9377	.9377	.7934	.7934	.6088	.6088	.9914	.9914	.3007	.3007	.9763	.9763	.9990	.9990	.0436	.0436
22.5	.3827	.9239	.9239	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
27.5	.4618	.8870	.8870	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
32.5	.5373	.8434	.8434	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
37.5	.6088	.7934	.7934	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
42.5	.6756	.7373	.7373	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
47.5	.7373	.6756	.6756	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
52.5	.7934	.6088	.6088	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
57.5	.8434	.5373	.5373	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
62.5	.8870	.4618	.4618	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
67.5	.9239	.3827	.3827	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
72.5	.9537	.3007	.3007	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
77.5	.9763	.2164	.2164	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
82.5	.9914	.1305	.1305	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
87.5	.9990	.0436	.0436	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
92.5	.9990	-.0436	-.0436	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
97.5	.9914	-.1305	-.1305	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
102.5	.9763	-.2164	-.2164	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
107.5	.9537	-.3007	-.3007	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
112.5	.9239	-.3827	-.3827	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
117.5	.8870	-.4618	-.4618	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
122.5	.8434	-.5373	-.5373	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
127.5	.7934	-.6088	-.6088	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
132.5	.7373	-.6756	-.6756	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
137.5	.6756	-.7373	-.7373	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
142.5	.6088	-.7934	-.7934	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
147.5	.5373	-.8434	-.8434	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
152.5	.4618	-.8870	-.8870	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
157.5	.3827	-.9239	-.9239	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
162.5	.3007	-.9537	-.9537	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
167.5	.2164	-.9763	-.9763	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
172.5	.1305	-.9914	-.9914	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436
177.5	.0436	-.9990	-.9990	.9914	.9914	.1305	.1305	.9763	.9763	.9990	.9990	.4618	.4618	.9990	.9990	.0436	.0436

Assumes d-c and even-harmonic components are absent

$b_1 = \frac{18}{18} \quad a_1 = \frac{18}{18} \quad b_3 = \frac{18}{18} \quad a_3 = \frac{18}{18} \quad b_5 = \frac{18}{18} \quad a_5 = \frac{18}{18} \quad b_7 = \frac{18}{18} \quad a_7 = \frac{18}{18}$