“Odd”					
1	**2**	**3**	**4**	**5**^{a}	**5**^{b}
$\frac{\pi}{\sqrt{3}}$	$\frac{\pi}{\sqrt{3}}\ln 3$	$\frac{\pi}{\sqrt{3}}\ln^2 3$	$\frac{\pi}{\sqrt{3}}\ln^3 3$	$\frac{\pi}{\sqrt{3}}\ln^4 3$	$\frac{\pi}{\sqrt{3}}\zeta_4$
$\ln 3$	ζ_2	$\zeta_2 \ln 3$	$\zeta_2 \ln^2 3$	$\zeta_2 \ln^3 3$	$\pi\zeta_2 \mathrm{Cl}_2\left(\frac{\pi}{3}\right)$
	$\frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}$	$\frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}\ln 3$	$\frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}\ln^2 3$	$\frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}\ln^3 3$	$\frac{\pi}{\sqrt{3}}\left[\mathrm{Cl}_2\left(\frac{\pi}{3}\right)\right]^2$
	$\ln^2 3$	$\frac{\pi}{\sqrt{3}}\zeta_2$	$\frac{\pi}{\sqrt{3}}\zeta_2 \ln 3$	$\frac{\pi}{\sqrt{3}}\zeta_2 \ln^2 3$	$\zeta_2 \frac{\mathrm{Ls}_3\left(\frac{2\pi}{3}\right)}{\sqrt{3}}$
		$\pi \mathrm{Cl}_2\left(\frac{\pi}{3}\right)$	$\pi \mathrm{Cl}_2\left(\frac{\pi}{3}\right)\ln 3$	$\pi \mathrm{Cl}_2\left(\frac{\pi}{3}\right)\ln^2 3$	$\mathrm{Cl}_2\left(\frac{\pi}{3}\right)\mathrm{Ls}_3\left(\frac{2\pi}{3}\right)$
		ζ_3	$\zeta_3 \ln 3$	$\zeta_3 \ln^2 3$	$\pi \mathrm{Ls}_4\left(\frac{\pi}{3}\right)$
		$\frac{\mathrm{Ls}_3\left(\frac{2\pi}{3}\right)}{\sqrt{3}}$	$\frac{\mathrm{Ls}_3\left(\frac{2\pi}{3}\right)}{\sqrt{3}}\ln 3$	$\frac{\mathrm{Ls}_3\left(\frac{2\pi}{3}\right)}{\sqrt{3}}\ln^2 3$	$\pi \mathrm{Ls}_4\left(\frac{2\pi}{3}\right)$
		$\ln^3 3$	$\zeta_2 \frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}$	$\zeta_2 \frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}\ln 3$	$\zeta_3 \frac{\mathrm{Cl}_2\left(\frac{\pi}{3}\right)}{\sqrt{3}}$
			$\frac{\pi}{\sqrt{3}}\zeta_3$	$\frac{\pi}{\sqrt{3}}\zeta_3 \ln 3$	$\zeta_2\zeta_3$
			$\pi \mathrm{Ls}_3\left(\frac{2\pi}{3}\right)$	$\pi \mathrm{Ls}_3\left(\frac{2\pi}{3}\right)\ln 3$	ζ_5
			$\left[\mathrm{Cl}_2\left(\frac{\pi}{3}\right)\right]^2$	$\left[\mathrm{Cl}_2\left(\frac{\pi}{3}\right)\right]^2 \ln 3$	$\frac{\pi}{\sqrt{3}}\mathrm{Ls}_4^{(1)}\left(\frac{2\pi}{3}\right)$
			ζ_4	$\zeta_4 \ln 3$	$\frac{\mathrm{Ls}_5\left(\frac{\pi}{3}\right)}{\sqrt{3}}$
			$\frac{\mathrm{Ls}_4\left(\frac{\pi}{3}\right)}{\sqrt{3}}$	$\frac{\mathrm{Ls}_4\left(\frac{\pi}{3}\right)}{\sqrt{3}}\ln 3$	$\frac{\mathrm{Ls}_5\left(\frac{2\pi}{3}\right)}{\sqrt{3}}$
			$\frac{\mathrm{Ls}_4\left(\frac{2\pi}{3}\right)}{\sqrt{3}}$	$\frac{\mathrm{Ls}_4\left(\frac{2\pi}{3}\right)}{\sqrt{3}}\ln 3$	$\mathrm{Ls}_5^{(1)}\left(\frac{2\pi}{3}\right)$
			$\mathrm{Ls}_4^{(1)}\left(\frac{2\pi}{3}\right)$	$\mathrm{Ls}_4^{(1)}\left(\frac{2\pi}{3}\right)\ln 3$	$\frac{\mathrm{Ls}_5^{(2)}\left(\frac{2\pi}{3}\right)}{\sqrt{3}}$
			$\ln^4 3$	$\ln^5 3$	χ_5

$$\chi_5 = \sum_{n=1}^{\infty} \frac{(n!)^2}{(2n)!}\,\frac{1}{n^2}\,\left[S_1(n-1)\right]^3 = \sum_{n=1}^{\infty} \frac{(n!)^2}{(2n)!}\,\frac{1}{n^2}\,\left[\psi(n)+\gamma\right]^3$$