

$$v^{(9)}(u) + 6v^{(7)}(u) + 9v^{(5)}(u) + 4v^{(3)}(u) = 0, \quad u \in \left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$$

$$p_9(z) = z^3 \prod_{k=1}^2 (z^2 + k^2)^{3-k}, \quad z \in \mathbb{C}$$

$$\mathcal{B}_8^{-\frac{\pi}{2}, \frac{\pi}{2}} = \{b_{8,i}(u) : u \in [-\frac{\pi}{2}, \frac{\pi}{2}]\}_{i=0}^8$$

