Dobre warunki dają np. wielomiany Chebysheva:

$$T_m(x) = \cos[\arccos x]$$
$$-1 \leq x \leq 1$$

Niech $\theta = \arccos x$

lub $x = \cos\theta, \quad 0 \leq \theta \leq \pi$

Wtedy $T_n(x) = \cos n\theta$.

$$T_0(x) = \cos(0 \cdot \theta) = \cos(0) = 1,$$

$$T_1(x) = \cos(1 \cdot \theta) = \cos\theta = x,$$

$$T_2(x) = \cos(2 \cdot \theta) = 2\cos^2(\theta) - 1$$
$$= 2x^2 - 1$$