1. Construct successive Fourier polynomials up to degree 4 for the square wave function $f$, with period $2\pi$, given by

$$f(x) = \begin{cases} 
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2. Construct successive Fourier polynomials up to degree 7 for the square wave function $f$, from problem 1.
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Each problem is worth 5 points. For full credit provide complete justification for your answers.

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