Fourier series and transforms - Check your knowledge

\Box Do you know which formulas to use in order to find the Fourier series of a function f that has period 2 π ?
\Box How are these formulas modified if f has period 2 L , or if f is even, or if f is odd?
\Box Do you know what to do if you are asked to write the Fourier series of a function f in complex form?
□ What integration methods are typically used for the calculation of Fourier coefficients?
\Box If the Fourier series of a function f converge, what does it converge to?
□ Do you know how to use Fourier series to solve a linear differential equation describing a forced oscillator with a periodic forcing term?
☐ How do you find the Fourier transform of the derivative of a function? What is it equal to? How does this result generalize to higher-order derivatives?
\Box If the Fourier transform of a function f converge, what does it converge to?
□ Do you know what the convolution theorem says?