1. Compute the Green functions associated with the following differential operators $L$.
   a) $L = D^2 + 8D - 20$
   b) $L = D^2 + 8D + 20$
   c) $L = D^4 + 13D^2 + 36$

2. Use the Green function method to find a general solution of the following equations.
   a) $D^2 y - Dy - 2y = \frac{1}{e^t + 1}$
   b) $D^2 y + y = \tan(t)$
   c) $D^2 y + y = \frac{1}{16 + 9 \cos(t)^2}$