Feb 12

Convert each of the IVP to a Volterra integral equation

1. $y' - y = x$, $y(0) = 0$

2. $y'' + y = 0$, $y(0) = 1$, $y'(0) = 0$

3. $y'' + 5y' + 6y = 0$, $y(0) = y'(0) = 1$

4. $y''' + 4y' = x$, $y(0) = y'(0) = 0$, $y''(0) = 1$

5. $y^{iv} - y = 0$, $y(0) = 1$, $y'(0) = 0$, $y''(0) = -1$, $y'''(0) = 0$