

6.2: Solving IVPs with Laplace Transforms

Examples:

Use the Laplace Transform to solve $y'' + y' - 6y = 0$, $y(0) = 1$, $y'(0) = 2$.

Use the Laplace Transform to solve $y'' + y = \sin(2t)$, $y(0) = 2$, $y'(0) = 1$.

Use the Laplace Transform to solve $y'' + 2y' + y = 4e^{-t}$, $y(0) = 2$, $y'(0) = -1$.