

Practice Exam

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2) (a) Find the particular solution of
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with $y(0) = -1$, $y'(0) = -3$

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3) Find the particular solution for
 $y'' + 64y = 0$ with $y(0) = 3$, $y'(0) = -48$.

4) Find the Laplace Transform for
 $y'' + 4y = 12t$, $y(0) = 2$, $y'(0) = 6$

5) Find the series solution to
 $(1 - 2x^2)y'' + (2 - 6x)y' - 2y = 0$, $y(0) = 1$, $y'(0) = 0$