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|  | Homework | 27th June 2023 |

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1. Find Laplace Transform of the following:

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1. Does exist? Explain. (Exercises 5.2 # 5)

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is not piecewise continuous on since it does not have a limit as . Nonetheless, the singularity at is not strong enough to cause divergence, and hence the Laplace Transform exists.

**Use Laplace Transform to find the general solution, or the particular solution if initial conditions are given**:

1. Exercises 5.4 # (1) - g

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1. Exercises 5.4 # (1) - h

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1. Exercises 5.4 # (1) - k

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1. Exercises 5.4 # (1) - n

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1. Exercises 5.4 # (1) - r

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1. Exercises 5.4 # (1) - s

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