**Steady State Error Analysis using Simulink**

**Lab report #09**

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Fall 2022

CSE-310L Control Systems

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Class Section: **B**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Submitted to:

**Dr: Muniba Ashfaq**

**January** 11, 2023

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**TASK:**

**Setup negative feedback system for the following system:**

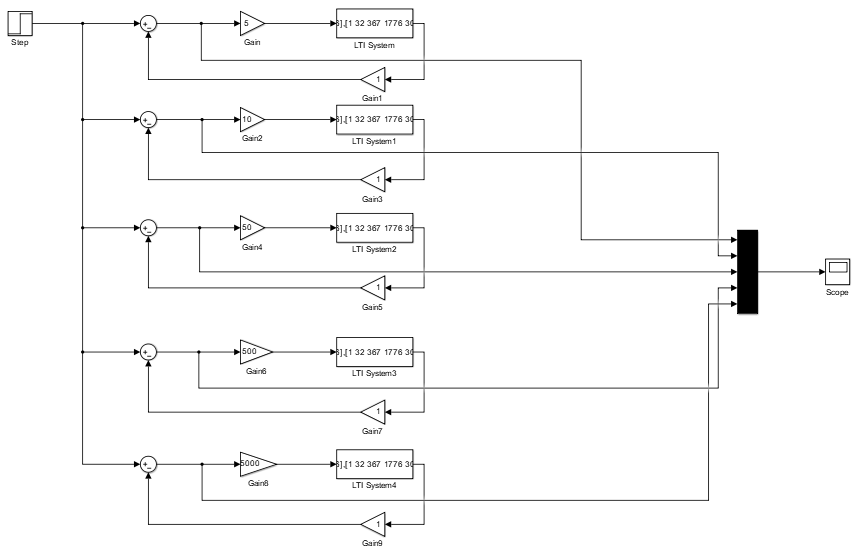
**G(s) = k(s+6) / (s+4) (s+7) (s+9) (s+12)**

**H(s) = 1**

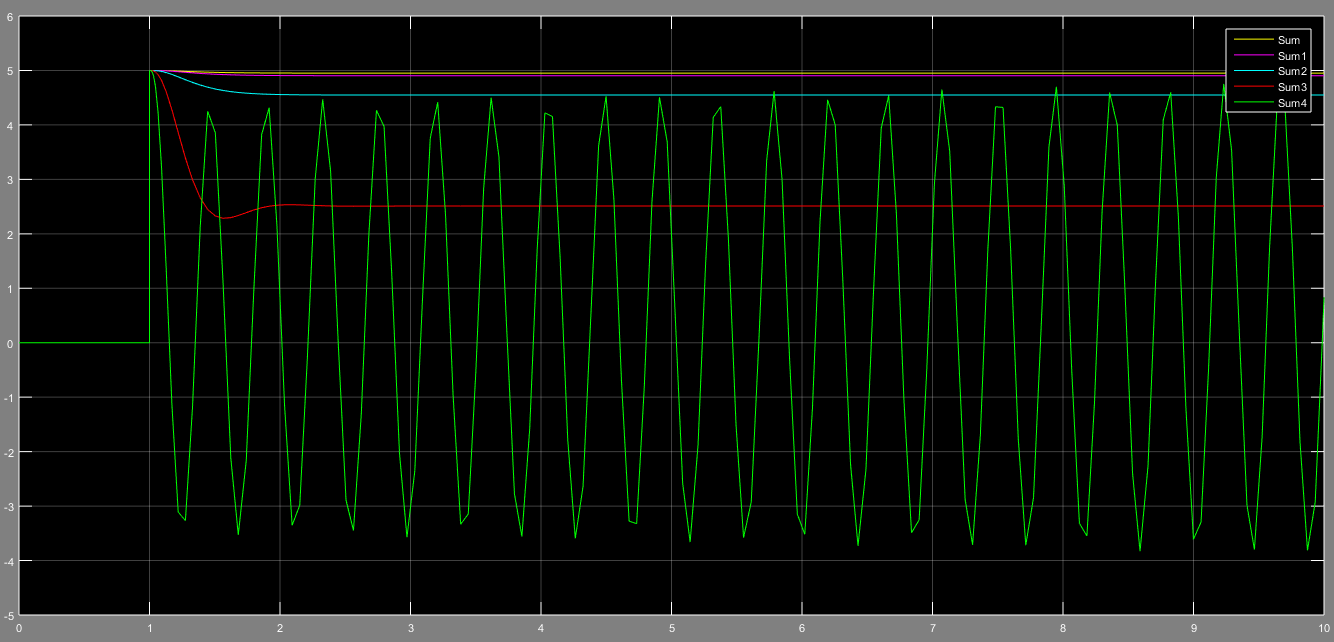
**Plot on one graph the error signal for….**

1. **Input = 5u(t) with k = 5,10,50,500,5000**

**Simulink:**

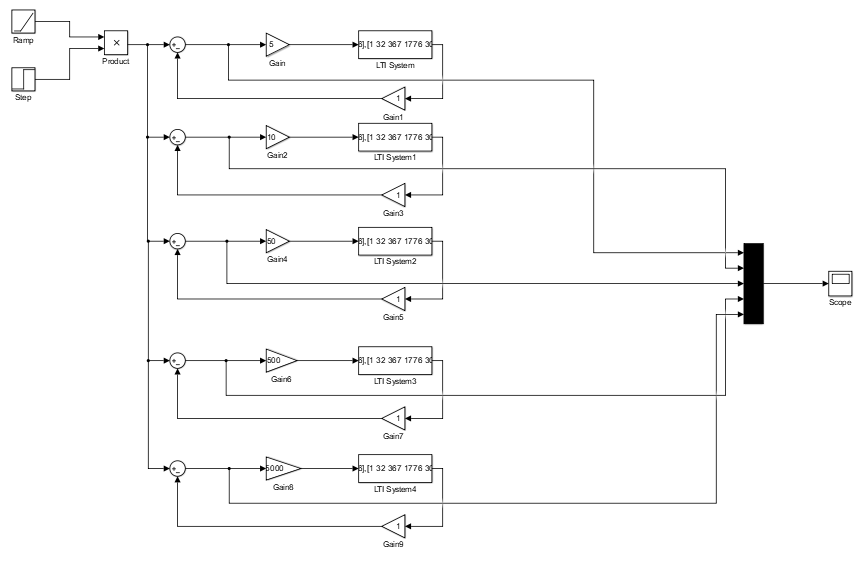
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**Output:**

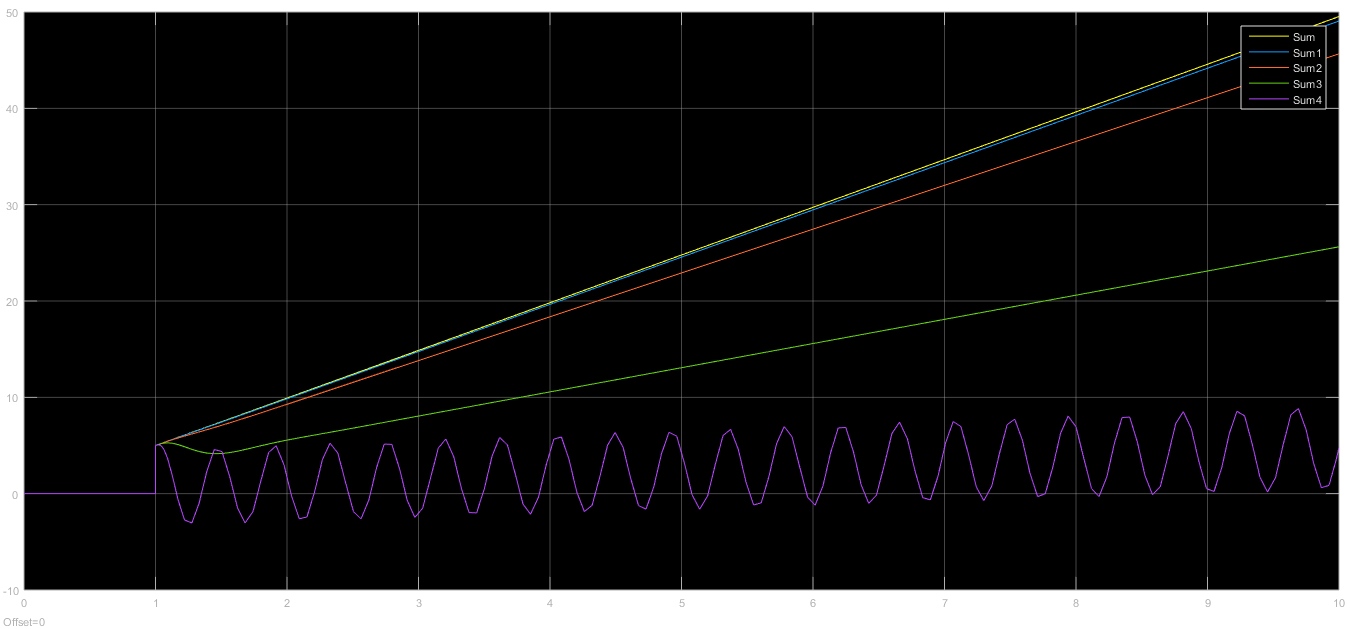
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1. **Input = 5tu(t) with k = 5,10,50,500,5000**

**Simulink:**

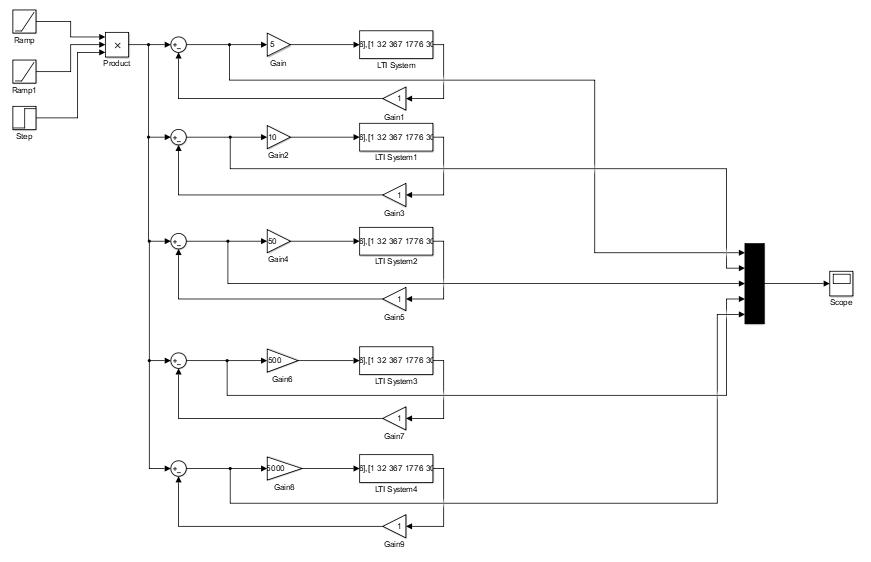
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**Output:**

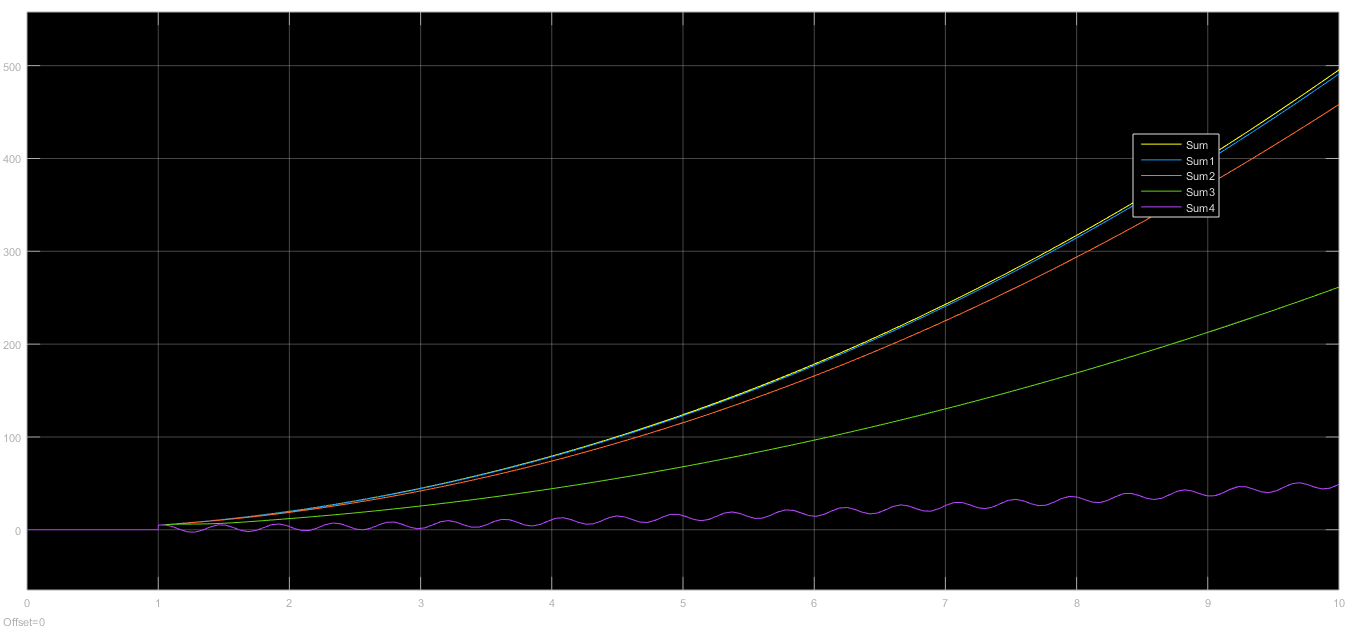
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1. **Input = 5t^2u(t) with k = 5,10,50,500,5000**

**Simulink:**

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**Output:**

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