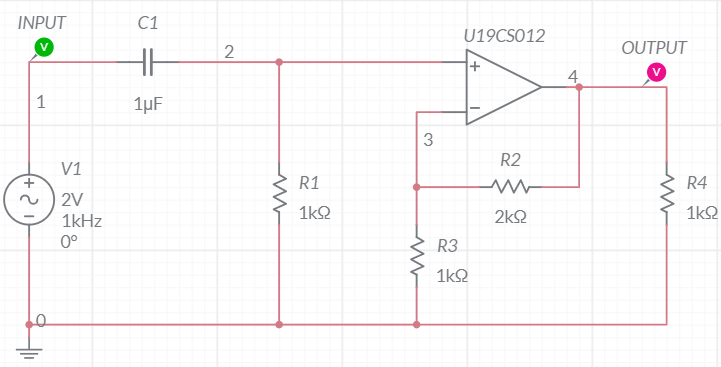
**ASSIGNMENT-13**

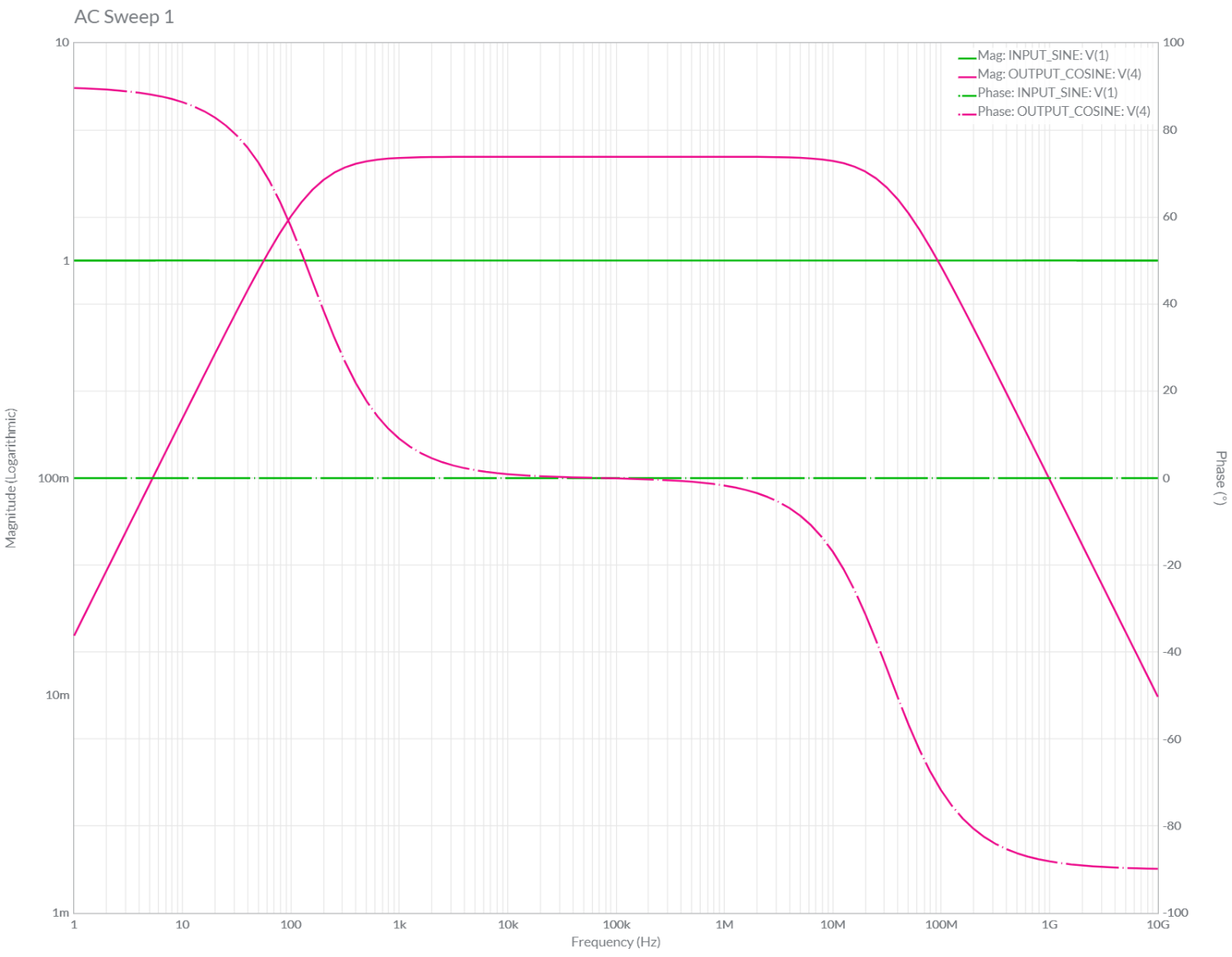
U19CS012

1. Simulate an Active High Pass Filter Circuit [High Pass Filter using OPAMP]

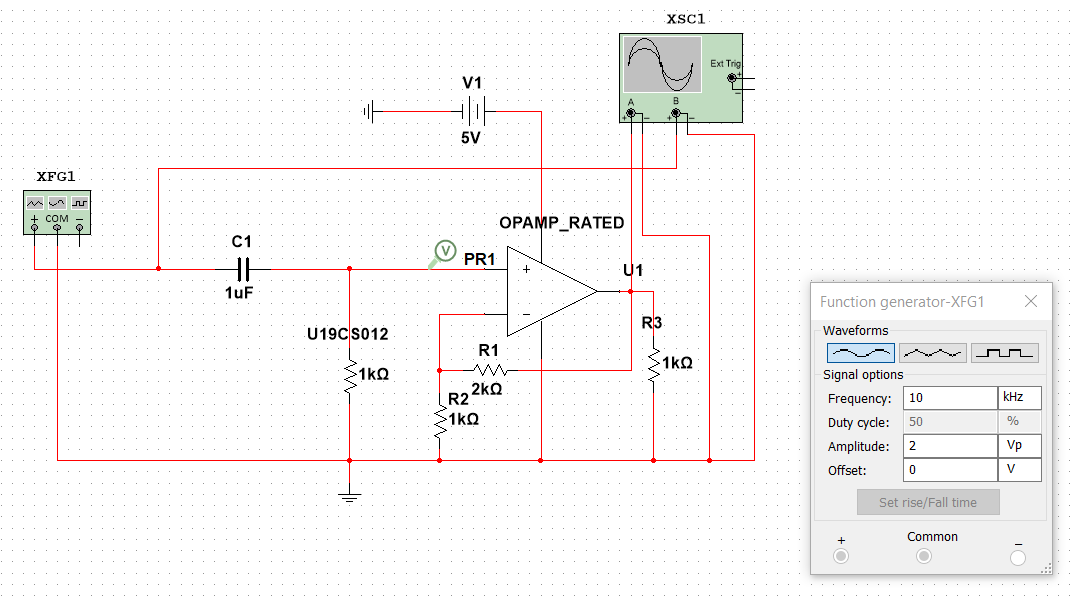
**Circuit Diagram [Multisim Implementation]**



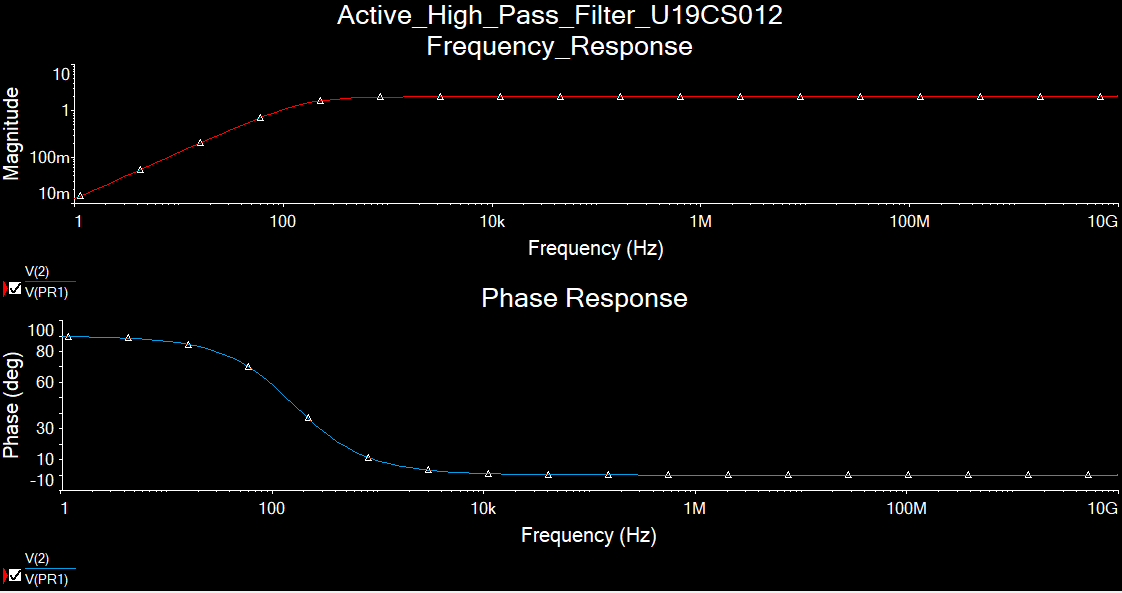
**Grapher Image [AC Sweep]**

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**Circuit Diagram [Offline Multisim Implementation]**



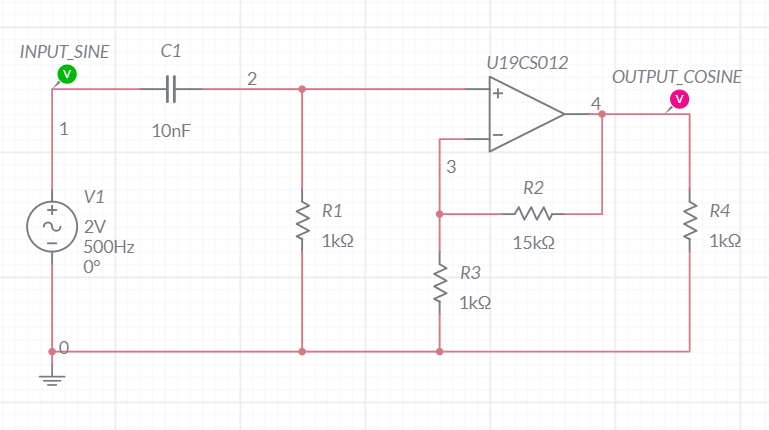
**Grapher Image [Offline Multisim AC Sweep]**



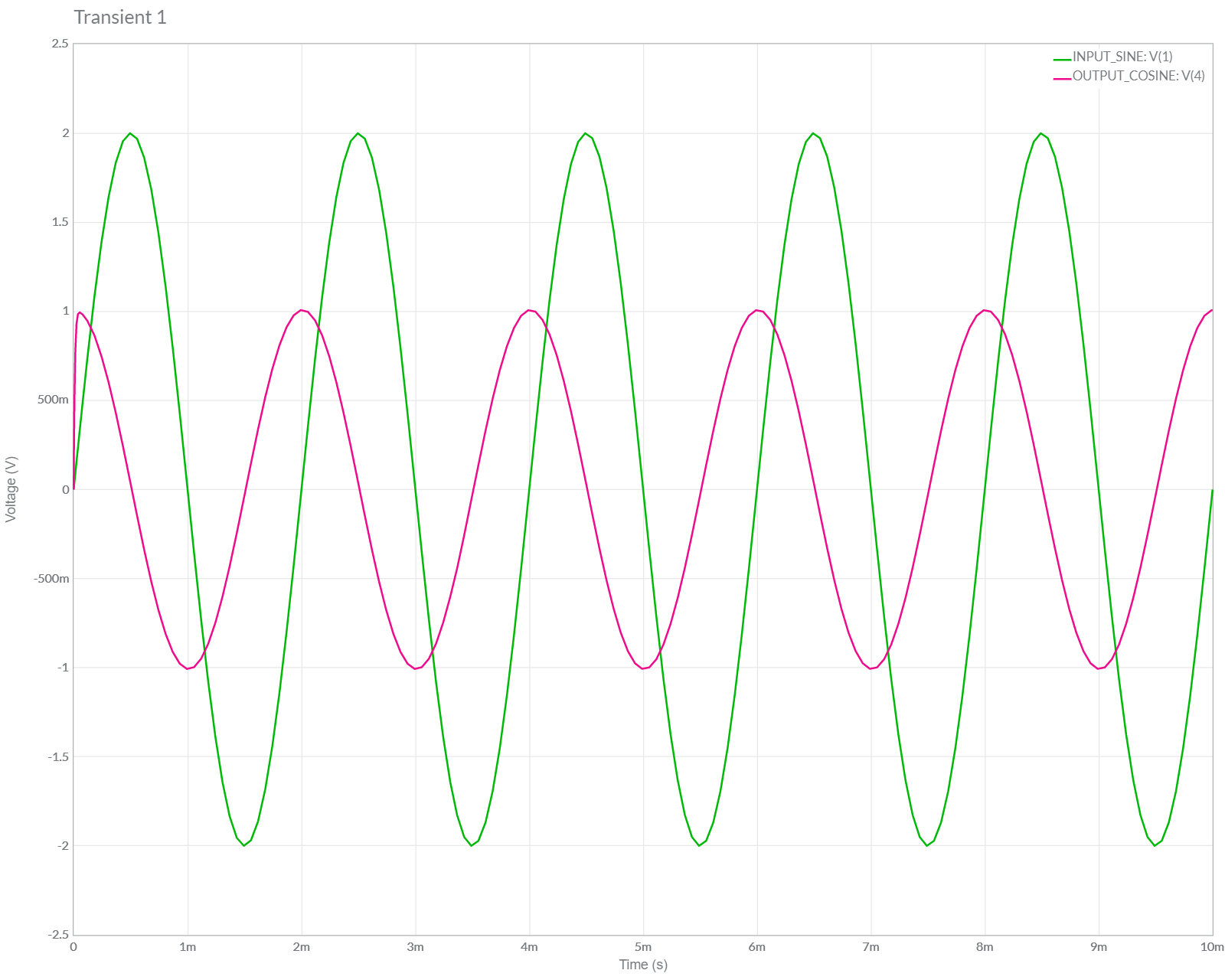
2. Simulate an Active High Pass Filter Circuit as Differentiator

[Differentiation of (Sine Wave) = + Cosine Wave]

**Circuit Diagram [Multisim Implementation]**



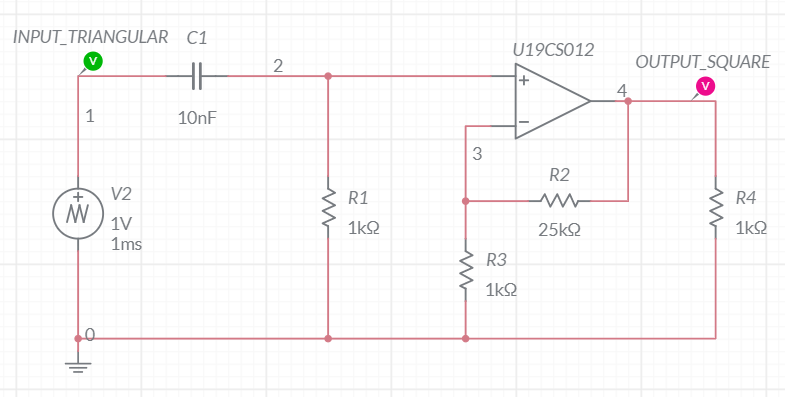
**Grapher Image [Transient]**

****

3. Simulate an Active High Pass Filter Circuit as Differentiator

[Differentiation of (Triangular Wave) = Square Wave]

**Circuit Diagram [Multisim Implementation]**



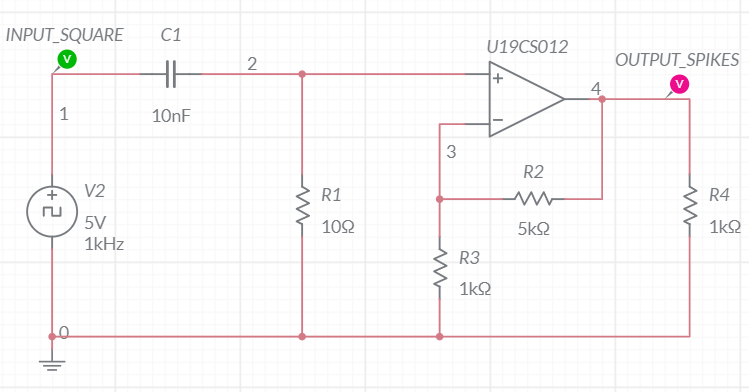
**Grapher Image [Transient]**

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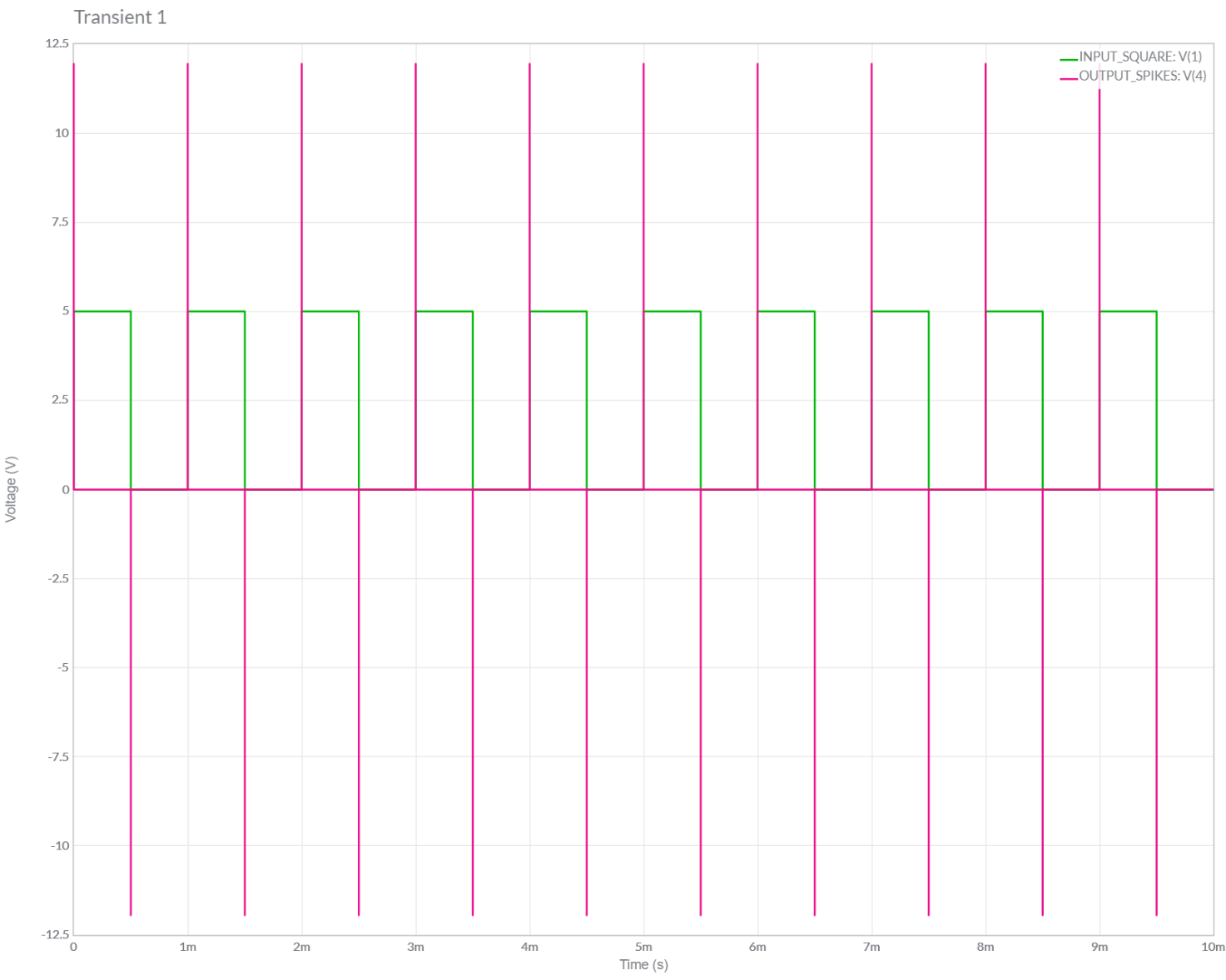
4. Simulate an Active High Pass Filter Circuit as Differentiator

[Differentiation of (Square Wave) = Spikes Wave]

**Circuit Diagram [Multisim Implementation]**

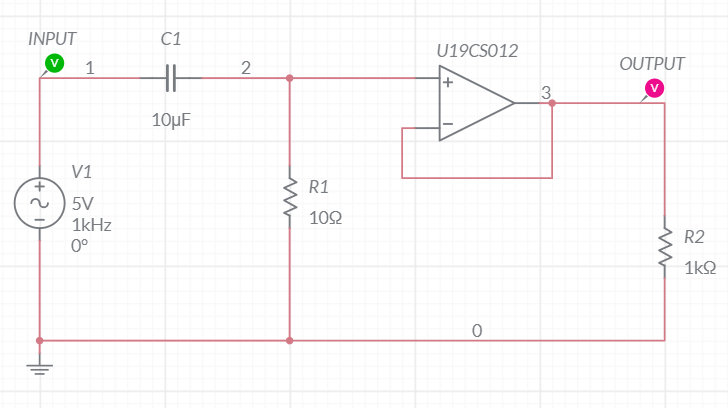


**Grapher Image [Transient]**

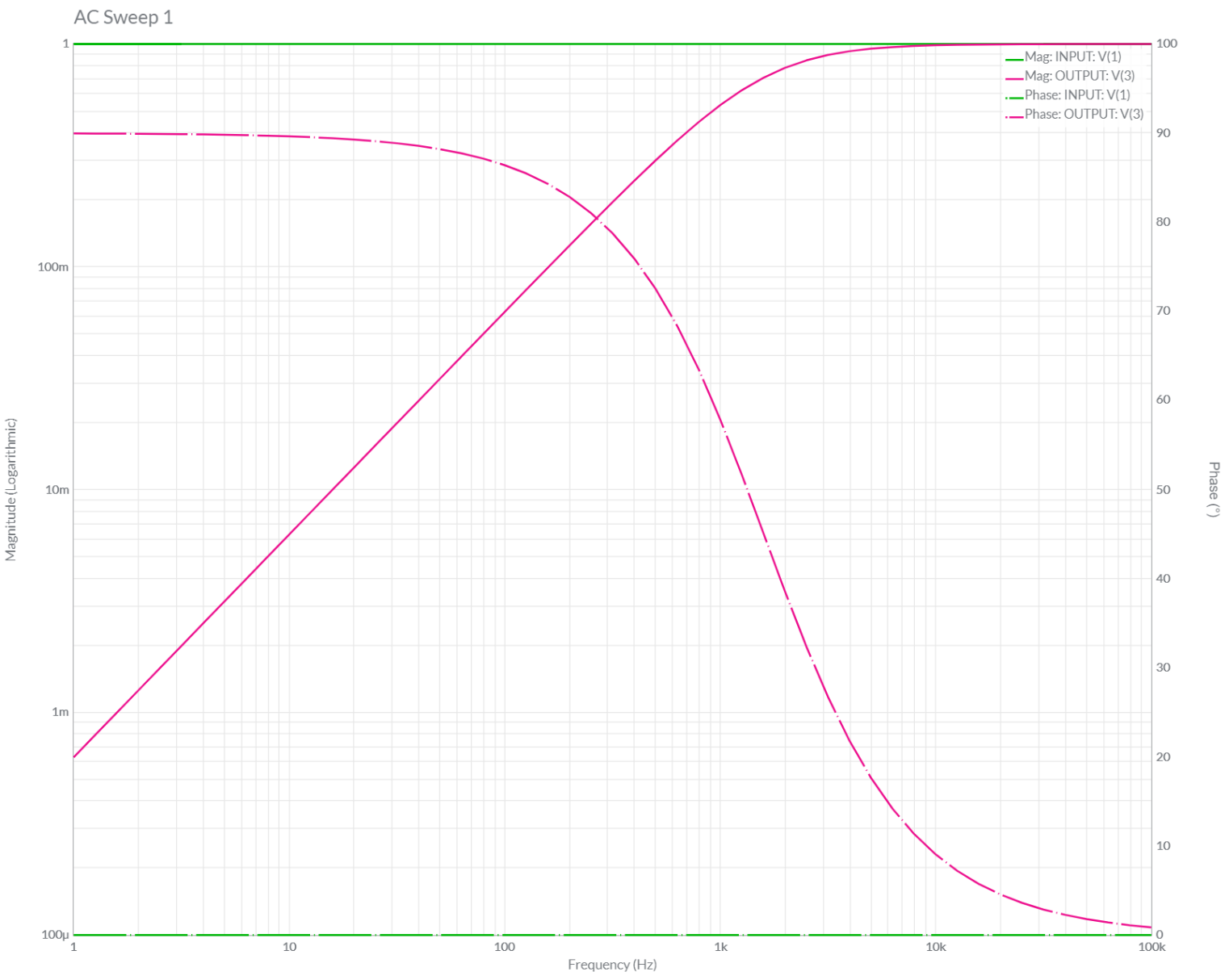
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5. Simulate an Active Low Pass Filter Circuit [High Pass Filter using OPAMP] [EXTRA] [OPAMP as Buffer]

**Circuit Diagram [Multisim Implementation]**



**Grapher Image [AC Sweep]**

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