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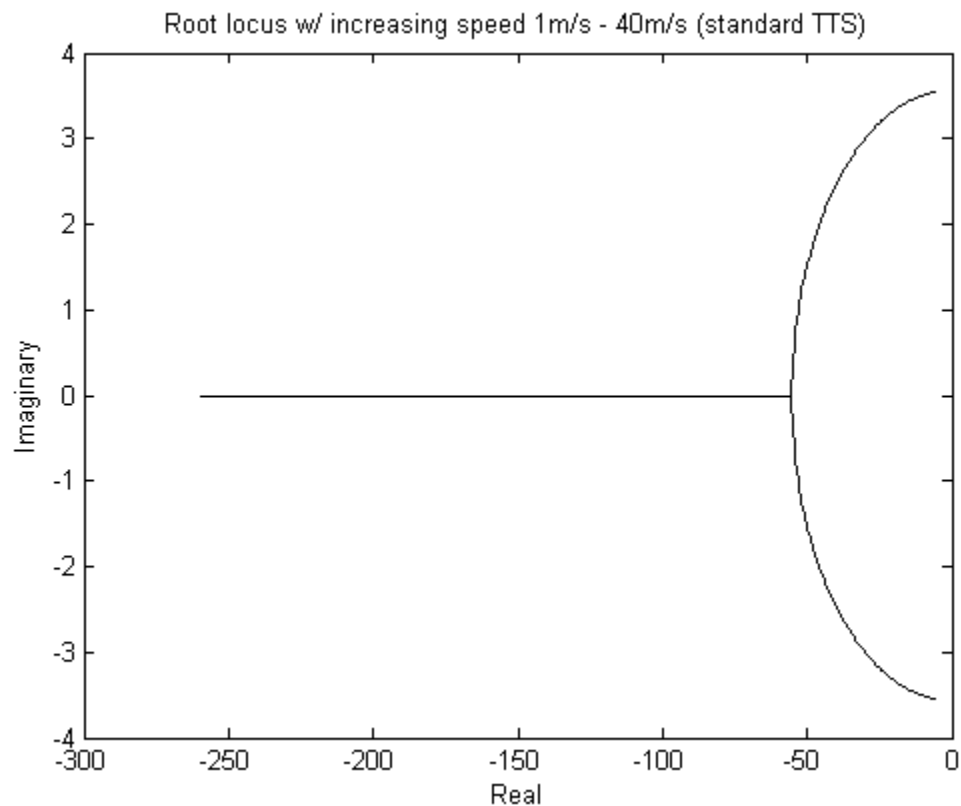
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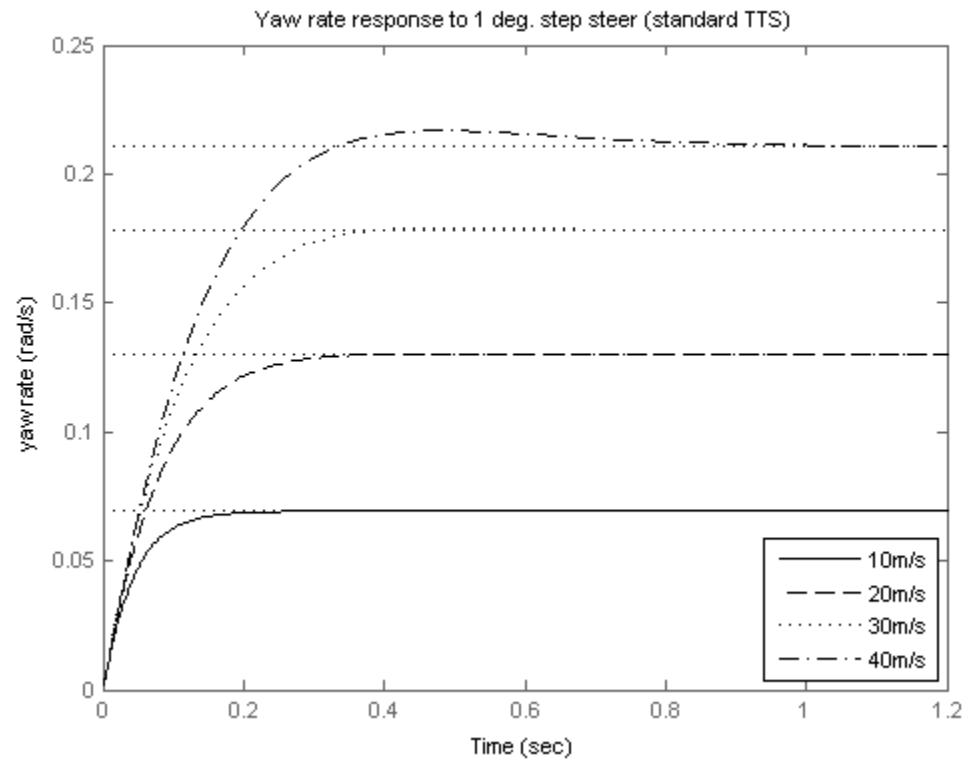
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## Script for 2011 ME227 HW 2 Problem 4

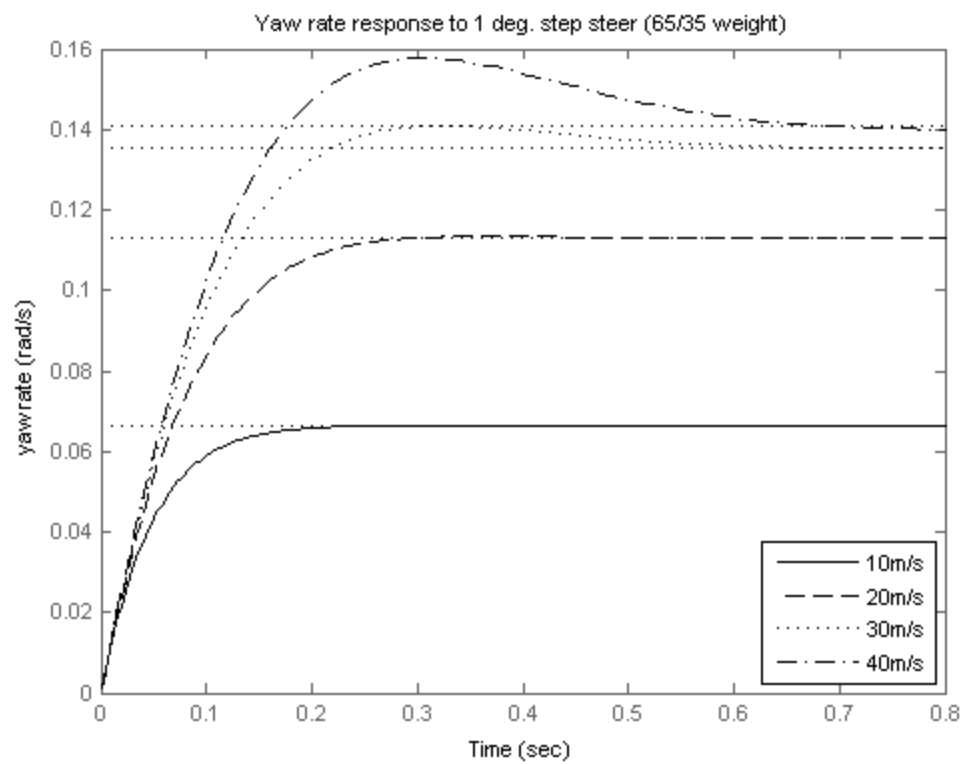
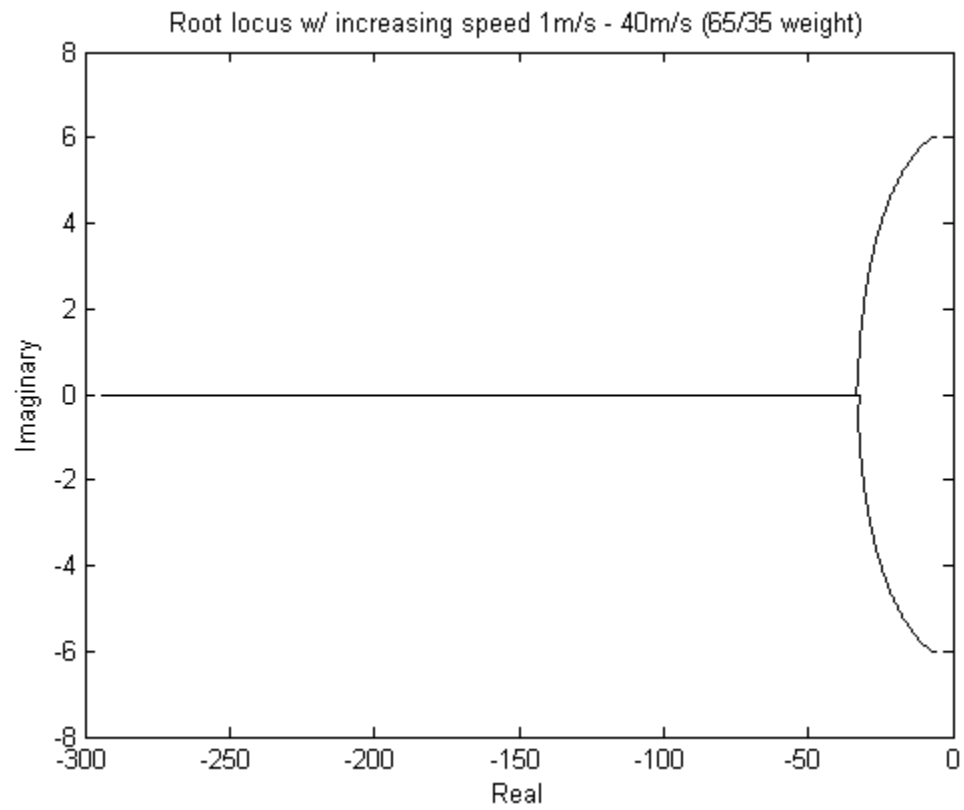
Author: Ruslan Kurdyumov Date: April 11, 2011

### (2.4-1) Root locus and Yaw rate step response: standard TTS





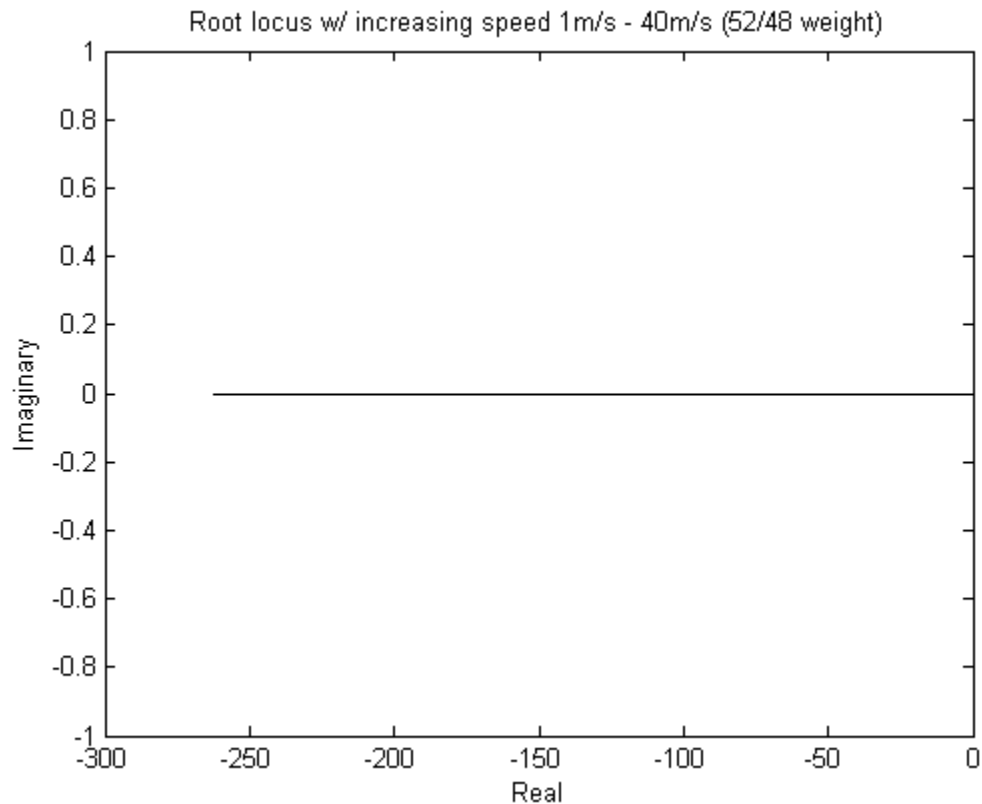
## **(2.4-2) Root locus and Yaw rate step response: 65/35 weight**

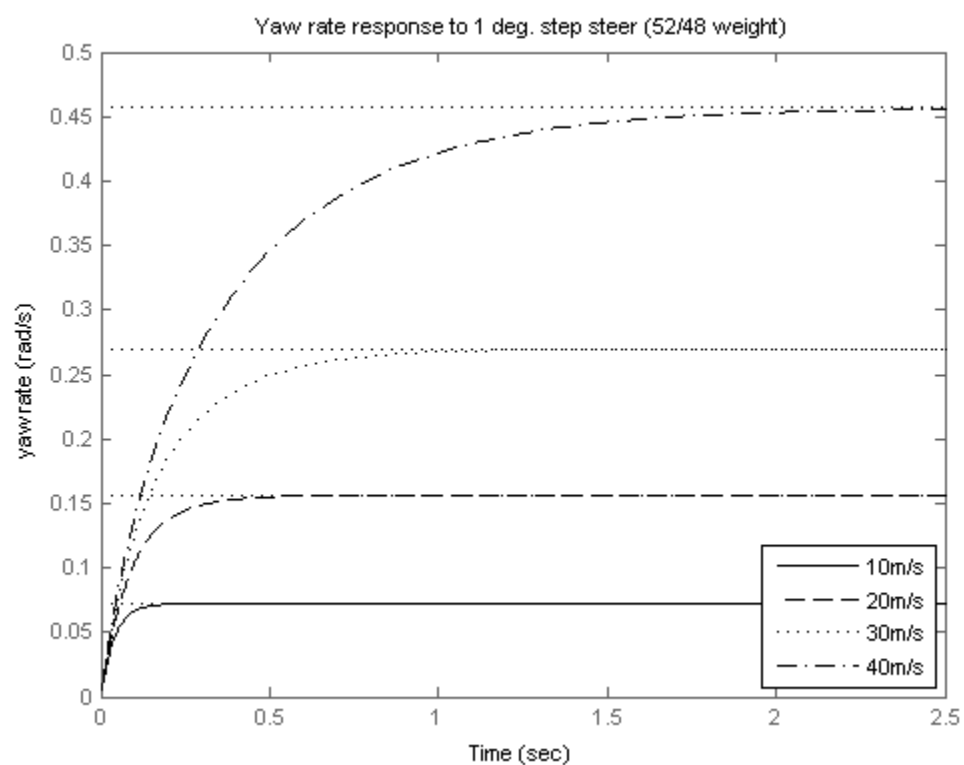


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## (2.4-3) Root locus and Yaw rate step response: 52/48 weight

As the vehicle became more front heavy, the root locus moved out from the real axis, so the step response was not as heavily damped. As the vehicle became less front heavy, the root locus shifted completely to the negative real axis, so the step response was overdamped even as we increased the vehicle speed.





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