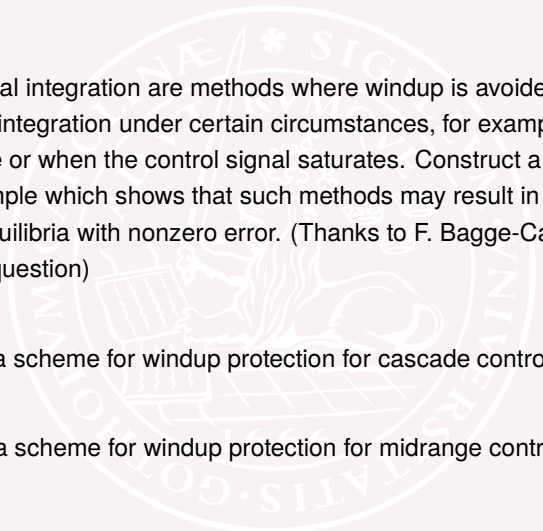


## Handin 4

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- A) Conditional integration are methods where windup is avoided by suspending integration under certain circumstances, for example when the error is large or when the control signal saturates. Construct a counterexample which shows that such methods may result in systems that have equilibria with nonzero error. (Thanks to F. Bagge-Carlsson for raising this question)
- B) Suggest a scheme for windup protection for cascade control.
- C) Suggest a scheme for windup protection for midrange control.