# Lab 5

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| No | Digital Controller | Steady-state error | Overshoot (%) | Settling time | Control signal variation |
| 1 | Kalman | zero | zero | 6 min | +73.83  -63.17 |
| 2 | Without pole closest to -1 | zero | 17.3 | 19.5 | +43.25  -26.05 |
| 3 | Without pole closest to -1 and complex poles | zero | 39.8 | 49.5 | +13.45  -14.5 |
| 4 | Saturated and modified | zero | 31.5082 | 100.3706 | -0.5  +0.5 |