

Due 9/29/2025, 9:30 a.m.

Solve the following problems and staple your solutions to this cover sheet. (Computer outputs must be put in the appropriate place in the solution, not attached as an appendix. You may physically cut and paste the output in the problem or allow appropriate space in the printout to add your hand written work.)

1. Sec 2.3, Prob 2.
2. Sec 2.3, Prob 3.
3. Sec 2.3, Prob 4.
4. Sec 2.4, Prob 2.
5. Sec 2.5, Prob 1. First read and understand derivation of the model in equation 2.21 in section 2.5.
6. Sec 2.5, Prob 4. First, discuss how the Strength and Agility model is developed in section 2.5 and use it to answer this problem.
7. Sec 3.1, Prob 3. You may transform data and graph it using Mathematica. But you must estimate the parameters graphically, not using Mathematica.
8. Sec 3.1, Prob 6. You may transform data and graph it using Mathematica. But you must estimate the parameters graphically, not using Mathematica.
9. Free points!
10. Free points!