

## Network Optimization (Fall 2024): Homework 3

- AMO stands for the text (Ahuja, Magnanti, Orlin). Exercises and page numbers are listed from AMO.
- Exercises marked with a [G] target the graduate students (Math 566), but undergrads (Math 466) can attempt them for extra credit.
- The total points (given in parentheses) add up to 115. Math 566 students will be graded for 110 points, and Math 466 students for 90 points.
- **You must email your submission as a PDF file to [kbala@wsu.edu](mailto:kbala@wsu.edu).** You are welcome to write answers by hand, and scan the writings (or take pictures of your writings) **into a PDF file.**
- **Your file name should identify you in the following manner. If you are Scott Tenorman, you should name your submission ScottTenorman\_Hw3.pdf. If you want to add more bits to the title, e.g., Math566, you could name it ScottTenorman\_Math566\_Hw3.pdf, for instance. But you should start the file name with ScottTenorman. And please avoid white spaces in the file name.**
- **Begin the SUBJECT of your email submission with the same FirstnameLastname, expression, e.g., “ScottTenorman Hw3 submission”.**
- **This homework is due by 11:59 PM on Thursday, September 12.**

1. (15) AMO 2.43 (page 51).
2. (10) AMO 2.44 (page 51).
3. (15) AMO 2.47 (page 51).
4. (25) [G] AMO 2.51 (page 52).
5. (25) AMO 3.5 (page 86).
6. (25) AMO 3.6 (page 86). Justify your YES/NO responses.