

Problem 1 (10 Points) Exercise 4.2 page 136 of *Principle of Highway Engineering and Traffic Analysis, Second Edition*.

Problem 2 (10 Points) Exercise 4.19 page 139 of *Principle of Highway Engineering and Traffic Analysis, Second Edition*.

Problem 3 (10 Points) Exercise 4.27 page 140 of *Principle of Highway Engineering and Traffic Analysis, Second Edition*.