

## Homework 11: Not collected

1. (20 points) Optimal tests for mixture of distributions.  
Problem 17 & 29 on page 456 & 458 of Shao (2003).
2. (10 points) UMPU test for Binomial distribution.  
Problem 39 on page 459 of Shao (2003).
3. (10 points) UMPU test for two sample means.  
Problem 49 on page 461 of Shao (2003).
4. (10 points) Optimal tests for (two parameter) exponential distribution.  
Problem 14(a) on page 455 of Shao (2003). (Compare it with Ex 20.)