

In the name of God

Department of Physics  
Shahid Beheshti University

**ADVANCED TOPICS IN MODERN COSMOLOGY**

**Exercise Set 10**

**(Date Due: 1393/02/30)**

1. Solve exercise 3 of chapter 3 in *Modern Cosmology* written by Dodelson
2. Solve exercise 4 of chapter 3 in *Modern Cosmology* written by Dodelson
3. Solve exercise 7 of chapter 3 in *Modern Cosmology* written by Dodelson
4. Solve exercise 8 of chapter 3 in *Modern Cosmology* written by Dodelson
5. Solve differential equation derived for  $X_n$  numerically.

Good luck, Movahed

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