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## Additional Exercises for Convex Optimization

Stephen Boyd    Laven Vandenberghe  
April 22, 2008

This is a collection of additional exercises, meant to supplement those found in the book *Convex Optimization*, by Stephen Boyd and Laven Vandenberghe. These exercises were used in several courses at Stanford University, EE363A (Stanford), EE598B (UCAL), or 6.895 (MIT), usually for homework, but sometimes as exam questions. Some of the exercises were originally written for the book, but were reworked as exam questions. Many of them include computational assignments using CVX, available at [www.stanford.edu/~boyd/cvx/convex](http://www.stanford.edu/~boyd/cvx/convex). Many files included for these exercises can be found at the book website [www.stanford.edu/~boyd/convex/](http://www.stanford.edu/~boyd/convex/). Some of the exercises require a knowledge of elementary calculus.

If you find any of these exercises any way you like (for example in a course you teach), we would appreciate your acknowledgment. In fact, we greatly appreciate the feedback and comments that in some cases, including who have helped to clarify and debug these exercises. Public Perils helped identify some of the exercises that were originally seen in EE363A.

Given indications are clearly welcome for request to [mlk@math.stanford.edu](mailto:mlk@math.stanford.edu) or by email to us. In other cases please specify the way you are reading and give the URL.

We'll update this document as new exercises become available, as the exercise authors and readers will occasionally change. We have organized the exercises into sections that follow the book chapters, as well as include additional questions, some. Some exercises do not have their own sections, or don't fit well into any section, so we have just arbitrarily assigned them.

Stephen Boyd and Laven Vandenberghe

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