

Problem Set #2
IE 417
Due September 24, 2001

1. 3.8
2. 3.9
3. 3.30
4. 3.38
5. If Q is positive semidefinite, under what conditions (on Q and c) will $f(x) = \frac{1}{2}(x^T Q x) + c^T x$ attain its minimum over all $x \in \mathbb{R}^n$? be unbounded from below over all $x \in \mathbb{R}^n$?
6. 3.40