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### Nonlinear Programming 2nd Edition Solutions

The second derivative of  $f(x)$ , for  $x = 0$ , is given by  $f''(x) = 2\sqrt{2} - 2\cos(2\sqrt{3}\ln x) + 4\sqrt{3}\sin(2\sqrt{3}\ln x)$ . Thus:  $f''(x_k) = 2\sqrt{2} - 2\cos \pi/4 + 4\sqrt{3}\sin \pi/4 = 2\sqrt{2} - 2\sqrt{2}/2 + 4\sqrt{3}\sqrt{2}/2 = 4\sqrt{6}$ . Similarly  $f''(y_k) = 2\sqrt{2} - 2\cos -\pi/4 + 4\sqrt{3}\sin -\pi/4 = 2\sqrt{2} - 2\sqrt{2}/2 - 4\sqrt{3}\sqrt{2}/2 = -4\sqrt{6}$ . Hence,  $\{x_k \mid k \geq 0\}$  is a sequence of nonsingular local minima, which evidently converges to  $x^*$ ,

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1.2. Linear Programming: A Graphical Perspective in  $R^2$  13 The feasible region is shown in Figure 1.4. The LP has alternative optimal solutions that fall on the segment connecting  $x = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$  to  $x = \begin{pmatrix} 6 \\ 0 \end{pmatrix}$ . Each such solution has an objective value of  $z = 12$ , and the parametric representation of the segment is given by  $x = \begin{pmatrix} 3t+6(1-t) \\ t+0(1-t) \end{pmatrix}$  ...

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