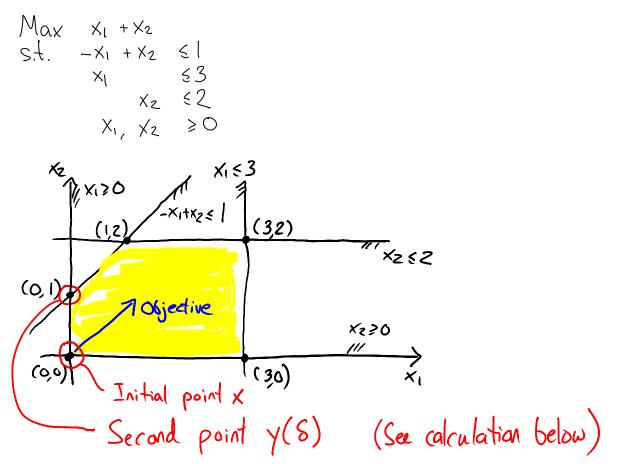
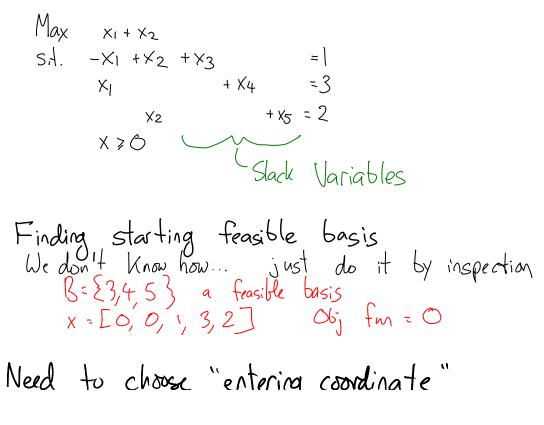
Algorithm Example

Tuesday, September 29, 2009 9:16 AM



Convert to Equational Form



Worksheets Page 1

Benefit of
$$x_2$$
?
 $d_{\overline{g}} - A_{\overline{g}} A_2 \quad d_2 = 1 \quad d_1 = 0$
 $d = [O'| -1 \quad O \quad -1]$
 $c = d = 1$ This is benefit of x_2

Could increase either XI or X2. We don't care which

Increase
$$x_2$$
 by z
Move to the new point $y(z)$
 $y(z) = x + zd$
 $S = \min \left\{ \frac{-x_1}{d_1} : z + \frac{1}{d_1} dz \right\} = \min \left\{ \frac{1}{2} \left\{ \frac{1}{2} - \frac{x_2}{d_2} \right\} - \frac{1}{d_2} dz \right\} = \min \left\{ \frac{1}{2} - \frac{1}{2} + \frac{1}{2} \right\} = 1$
 $S = 1$ $h = 3$ $dz + \frac{1}{2} = 1$
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