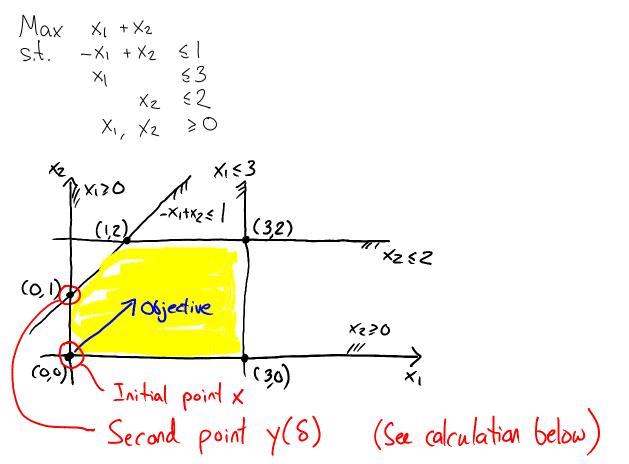
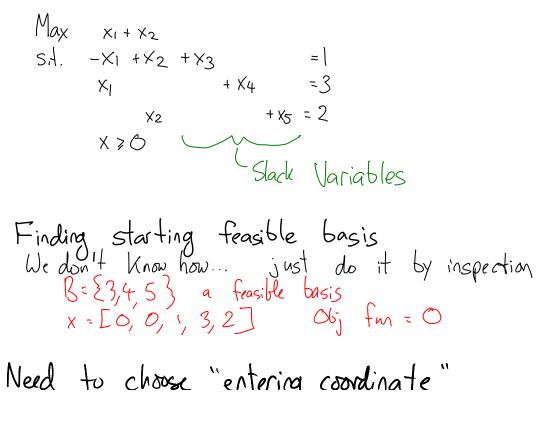
## Algorithm Example

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