

max.
$$g = x + y$$

$$x \leq y$$

$$y \leq y$$

$$x, y \geq 0$$

if
$$x > 0$$
 (and $y = 0$):
 $w_1 = y - x = y + 2x$
 $min \{y\} = y$

$$x = y$$
 - w_1

$$\omega_2 = 4 - y$$

$$x = y$$
 $\omega_1 = 0$

$$w_z = 4$$
 $y = 0$

$$(x, y, \omega_1, \omega_2) = (4,0,0,4)$$

$$\omega_2 = 4 - y \Rightarrow y$$

$$S = (Y - W_1) + (Y - W_2)$$

= $8 - W_1 - W_2$

$$x = Y - \omega_1$$

$$y = Y - \omega_2$$

$$X = Y$$
 $W_1 = 0$
 $Y = Y$ $W_2 = 0$
 $Y = Y$

$$\hat{x} = (\hat{y}), C^{T}\hat{x} = 1.4 + 1.4 = 8$$

Full solution!