

# Interpreting Simplex Tableaux

What about all those other numbers in the tableau?

*sensitivity*

*carpentry* *finishing* *upholstery*

|          | <i>c</i> | <i>s</i> | <i>u</i> | <i>v</i> | <i>w</i> | <i>p</i> |      |
|----------|----------|----------|----------|----------|----------|----------|------|
| <i>c</i> | 1        | 0        | 1/3      | -1       | 0        | 0        | 14   |
| <i>s</i> | 0        | 1        | -1/3     | 2        | 0        | 0        | 4    |
| <i>w</i> | 0        | 0        | 1        | -9       | 1        | 0        | 6    |
| <i>p</i> | 0        | 0        | 10/3     | 60       | 0        | 1        | 1400 |

*shadow prices*

*c* = 14  
*s* = 4  
*w* = 6 *unused upholstery hours*

*upholstery* = \$0/hour

*carpentry* =  $\$ \frac{10}{3} / \text{hour} = \$3.33 / \text{hour}$

*finishing* = \$60/hour

*3 more carpentry hours:*

$$c = 14 + 3 \left( \frac{1}{3} \right) = 15$$

$$s = 4 + 3 \left( -\frac{1}{3} \right) = 3$$

$$w = 6 + 3 \left( 1 \right) = 9$$

$$p = 1400 + 3 \left( \frac{10}{3} \right) = 1410$$

