Graphic eigenvalue, eigenvectors and 
$$H^{n}$$
.

 $\rightarrow \lambda \vec{v} = H\vec{v}$ 
 $H\vec{v} - \lambda \vec{v} = (H - \lambda \vec{I}) \cdot \vec{v} = 0$ 
 $\Rightarrow \det (H - \lambda \vec{I}) = 0$ 
 $\det (H - \lambda \vec{I}) = 0$ 
 $\Rightarrow \det (H - \lambda \vec{I}$ 

max 
$$z = x_1 + 2x_2 + 3x_3$$
  
s.t.  $x_1 + x_2 + 4 + x_3 + 5 + x_1 + x_3 = 0$ 

(a) Hold Simplex:  

$$-7 \ 0 + 2 - 4 + 3 \cdot 5 = 23$$

## With Simplex:

$$= 7 \times_{1} = 0 \times_{2} = 4 \times_{3} = 5 = 7 \times_{2} = 23$$





