

Notebook

August 10, 2017

1 Best response polytopes

Another useful representation of games is to consider polytopes. A polytope \mathcal{P} has the following definition:

This is a higher dimensional generalization of polygons. Let us plot the polytope with vertices:

$$V = \{(0,0), (1/2,0), (1/2,1/4), (0,1/3)\}$$

In [2]: %matplotlib inline

```
import matplotlib.pyplot as plt
import numpy as np
import scipy.spatial
```

```
V = [np.array([0, 0]), np.array([1 / 2, 0]), np.array([1 / 2, 1 / 4]), np.array([0, 1 / 3])
P = scipy.spatial.ConvexHull(V)
scipy.spatial.convex_hull_plot_2d(P);
```

