## E101-4.2 - Indifference Curves

Indifference Curve - Shows the combinations of goods that would give the same satisfaction or total utility to an individual or household.

Marginal Rate of Substitution - The amount of one good a consumer is willing to give up to get one more unit of another good and still maintain the same level of satisfaction.

Law of Diminishing Marginal Rate of Substitution - The more of one good a person as, the less of another good they will be willing to give up to gain an additional unit of first good.

Utility Maximization $\quad M R S=\frac{P_{A}}{P_{B}}=\frac{M U_{A}}{M U_{B}} \quad \frac{M U_{B}}{P_{B}}=\frac{M U_{A}}{P_{A}}$

Budget Constraints

| let $b=$ \# burgers |
| :--- |
| let $f=$ \# fries |


$3 b+2 f \leq 12$ | $b=\$ 3$ |
| ---: | :--- | :--- |
| $f=\$ 2$ |$\quad \$ 12$ to spend



$$
\begin{aligned}
& (f, b) \\
& (0,4)=\$ 12 \\
& (3,2)=\$ 12 \\
& (6,0)=\$ 12
\end{aligned}
$$

To Calculate we need the Marginal Utility of each product

