



## Supply and Demand problem

- **quantity supplied:** means what a company can or is willing to supply of that product at a given price
- **quantity demanded:** means what consumers are willing to buy at a given price

S = quantity supplied

D = quantity demanded

The S function (qty. supplied) for cellular phones (p: price of phone) each month is:

$$S(p) = 60p - 900$$

The D function (qty. demanded) for cellular phones (p) each month is:

$$D(p) = -15p + 2850$$

- Determine the equilibrium price (where do supply and demand meet – system of equations)
- What are the prices which qty demanded is greater than qty supplied:  $S(p) > D(p)$
- Graph  $S(p)$  and  $D(p)$  and label equilibrium price

