

AE 503

THE WELFARE THEOREMS

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■ **THE FIRST THEOREM OF WELFARE ECONOMICS**

☞ **An equilibrium achieved by a competitive market will be Pareto efficient**

■ **THE SECOND THEOREM OF WELFARE ECONOMICS**

☞ **With convex indifference curves, there will be a set of prices such that each Pareto efficient outcome is a competitive market equilibrium**

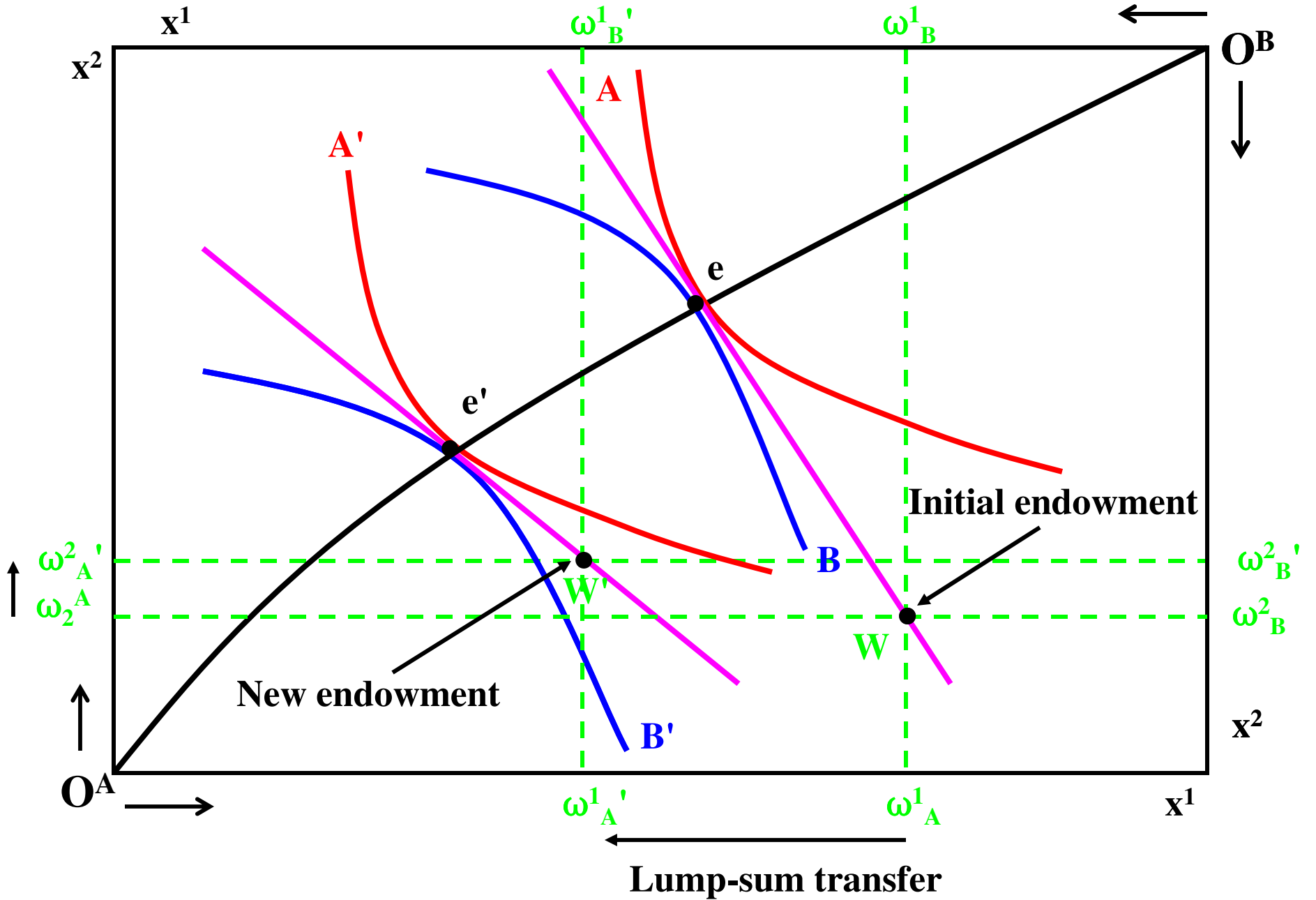
■ **IMPLICATIONS OF THE FIRST WELFARE THEOREM**

- ☞ **A private market that is competitive will result in Pareto efficiency - all gains from trade will be exhausted**
- ☞ **A competitive market is a benchmark by which policy-makers can judge actual market outcomes**
- ☞ **This theorem assumes that there are no market imperfections such as monopoly, externalities and public goods**

■ IMPLICATIONS OF THE SECOND WELFARE THEOREM

- ☞ This theorem suggests that problems of *efficiency* and *distribution* can be separated:
- ☞ If it is felt that the equilibrium at e' is somehow better than that at e , a *lump-sum transfer* of good 1 can be made from consumer A to consumer B, the endowment changing from W to W'
- ☞ The price system should then be allowed to generate an *efficient* outcome, given the new endowment - prices should not be used for re-distribution

SECOND WELFARE THEOREM



Distorted Prices

