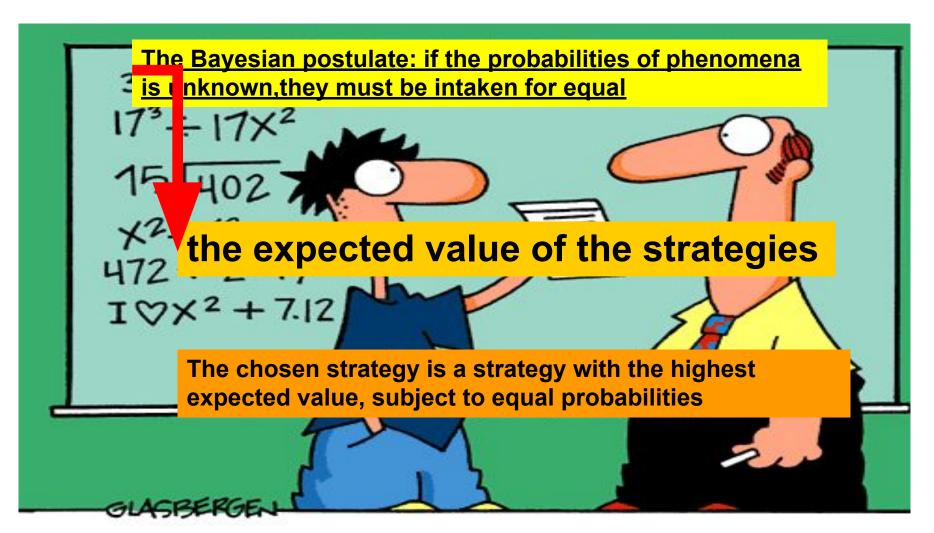


## d. Solution Criterion of Laplace (Bayesian)



For strategies S1, S2, S3, S4, S5, the expected value is 22/4, 24/4, 46/4, 42/4 and 47/4 respectively

|                       | -  |                  |                |                  |
|-----------------------|----|------------------|----------------|------------------|
|                       |    | Decis            | ion matri      | x                |
| Alternative           |    | The state of     | the externa    | l environment    |
| strategies            | N, | , N <sub>2</sub> | N <sub>3</sub> | N <sub>4</sub> . |
| S <sub>1</sub> .      | 6  | 6                | 6              | 4                |
| 5,                    | 25 | 7                | 7              | -15              |
| <b>S</b> <sub>3</sub> | 20 | 20               | 7              | -1               |
| 5,                    | 19 | 16               | 9              | 2                |
| S                     | 20 | 15               | 15             | -3               |

The result of the assumption of equal probabilities for each state of the economy is a decision in a situation of risk The criterion of Laplace - is the criterion of rationality, completely insensitive to the decision-makers

Suitable for **long-term forecasting** by large firms, as in fact equality of probabilities of all the States of the economy is impossible, especially in the short term





### **Conclusion:**

The process of decision-making under uncertainty is the process of criteria selection, and then performance of the calculations necessary to make a selection within this criterion

What criterion is the most suitable?

The choice often depends on personal reasons!

## e. Other methods of evoidance of uncertainty

# Hedging

- method in which future uncertainty is replaced with the reliability of the

current contract



# Manufacturer buys oil and plans to sell gasoline made of this oil after 3 months.





To reduce the risk, he enters into a forward contract for the supply of gasoline with expiry of 3 months.

### e. Other methods of evoidance of uncertainty

#### **FLEXIBLE INVESTMENT**

I don't want to be locked in investments in specialized assets unless it will become clear that the demand for them will take place during the whole term of investments



# e. <u>Other methods of evoidance of uncertainty</u> DIVERSIFICATION OF THE COMPANY'S INTERESTS

This approach is illustrated by the old adage:

"don't put all your eggs in one basket"



## e. Other methods of evoidance of uncertainty



# THE ACQUISITION OF ADDITIONAL INFORMATION

Obviously, the more information you gather about the future, the less it will be undefined

However, in some time the law of diminishing marginal utility will occur

# Tropical Products





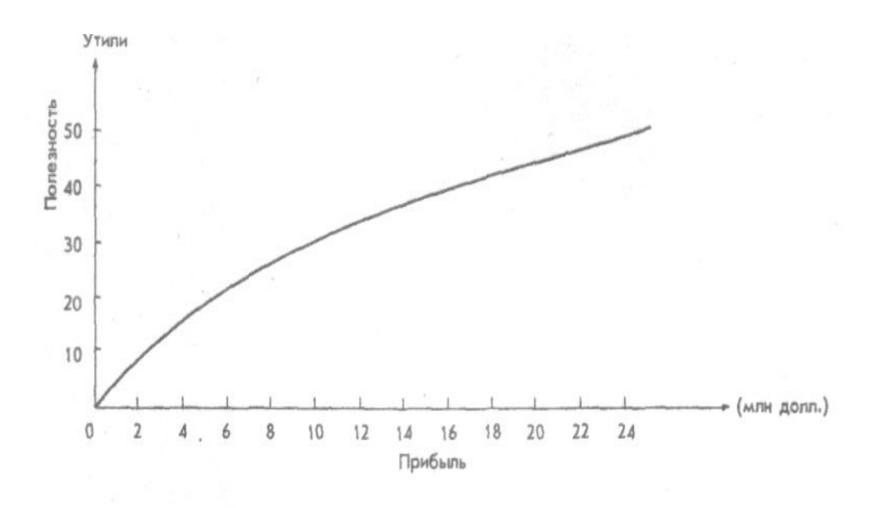


Рис. 4.12. Предполагаемая функция полезности