

The company "TAXIS" offers the service under the following conditions: for a fee of CZK 360/month, the call price for one minute is CZK 1.2/minute. The company "VEGA" offers unlimited calls to all networks for a fee of CZK 600 per month.

Task:

- a) *Determine in what time interval of calls are the individual offers beneficial?*
- b) *Schematically indicate the graphical form of the cost functions*

Table: *Overview of monthly production and total costs in the company "ABC s.r.o." for year 2022. Determine the annual and monthly cost function.*

<i>period</i>	<i>Amount of production [pcs]</i>	<i>Total costs [thousand CZK]</i>
January	6,224	6,967
February	8,460	7,776
March	10,408	8002
April	12,623	8,687
May	11,976	8,539
June	4,872	7,261
July	6,380	6,989
August	8,708	7,512
September	7,452	7 138
October	8,629	7,598
November	11,402	8,621
December	11,237	9,378
TOTAL	108,371	94,468

From the documents of the company "XYZ" the following information was obtained for the quarterly period:

- The total costs amount to CZK 10,855,500
- The variable cost is 850 CZK/pc
- The price of the product is 1600 CZK/pc
- A total of 7,830 units were produced and sold

1. *Determine the amount of fixed costs.*
2. *Find out the sales for this period.*
3. *What is the economic result for the given period?*
4. *Determine the cost function for the monthly period.*