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:

1. *Determine in what time interval of calls are the individual offers beneficial?*
2. *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.*

|  |  |  |
| --- | --- | --- |
| *period* | *Amount of production* | *Total costs* |
| *[ pcs ]* | *[ thousand CZK ]* |
| 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.*