

C-Pool

problem 173

The cost of operation

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Example description

The cost of operation of a unit consists of two components C1 and C2 which can be expressed as functions of a parameter p as follows:

$$C1 = 30 - 8p C2 = 10 + p2$$

Total cost =C1+C2

The parameter p ranges from 0 to 10.

Determine the value of p with an accuracy of + 0.1 where the cost of operation would be minimum.



Expected Output

MINIMUM COST = 24.00 AT p = 4.0