problem 2

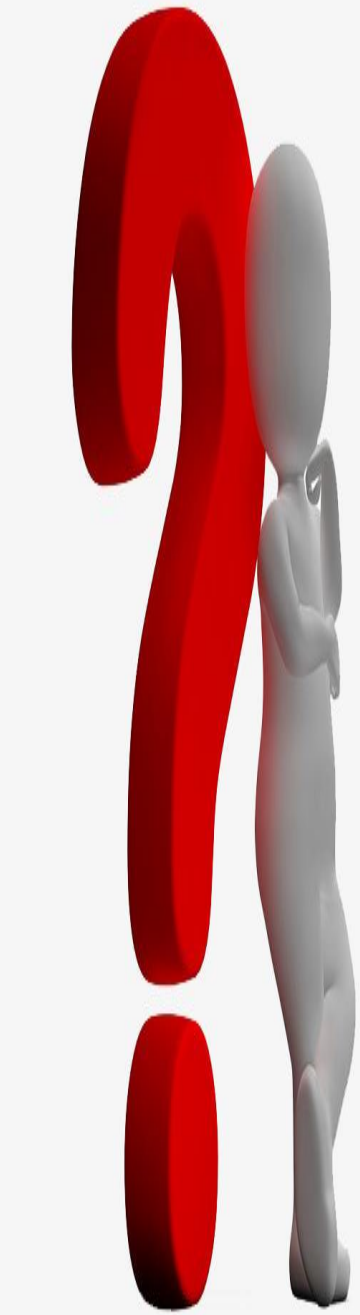
The cost of operation of a unit consists of two components C1 and C2 which can be expressed as functions of a parameter p as follows:

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

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:

C:\Windows\System32\cmd.exe

```
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

E:\imt school\c pool\p81>gcc main.c

E:\imt school\c pool\p81>a.exe

MINIMUM COST = 24.00 AT p = 4.0

E:\imt school\c pool\p81>
```