Quiz 3   EML3035   Fall 2007   Sec 001   Group#___   Name_____

1. What is the output of the last line
   ABC=5;
   if (ABC>=5)
       Y=9;
   else
       Y=10;
   end;
   ABC

   _____

2. What is the output of the last line
   ABC=5;
   if (ABC>5)
       Y=9;
   else
       Y=10;
   end;
    Y

   _____

3. What is the output of the last line
   ABC=8;
   if (ABC>5)
       Y=9;
   end
   if (ABC<10)
       Y=10;
   end
   Y

   _____

4. sin(pi)==0 gives false as output because
   (A) sin(pi)=1
   (B) sin(pi)=-1
   (C) sin(pi) is not defined
   (D) sin(pi) gives value other than zero in MATLAB

5. Complete if-else statement for checking if an integer (given to be always positive) is even or odd. x is the input positive integer; *Sgn_num* is the output variable. *Hint:* You can use the *floor* command to help you fill in the blank.

```
x=input ('Input the positive integer =    ');
if (_____)
    Sgn_num='even';
else
    Sgn_num= 'odd';
end
Sgn_num
```

Bonus Question

6. Person A is sitting next to Person B and Person C at a bus stop. All persons are strangers. Person A gives Person B ten dollars with an IF condition. The condition is that Person B has to offer a portion of the ten dollars to Person C, and only if Person C accepts the offer of the portion, can Person B and Person C keep their agreed share of the ten dollars. If Person C rejects the offer, neither Person B nor Person C get any money.

a) If you are Person B, how much of the $10 would you offer _____

b) If you are Person C, what is the minimum offer you would accept _____