

Question 1

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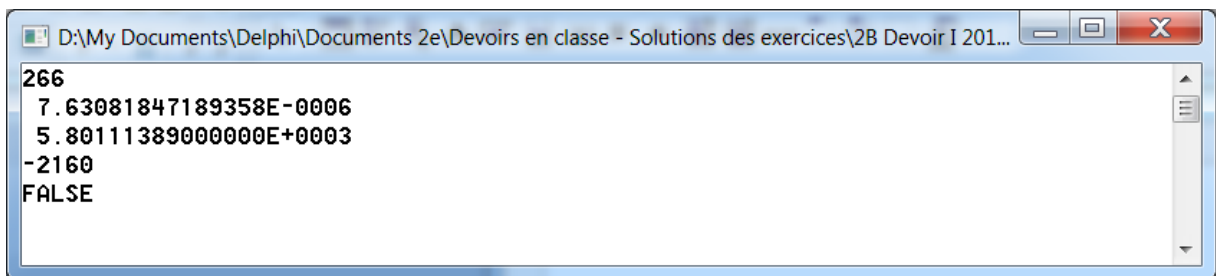
program question1;

{$APPTYPE CONSOLE}

uses
  SysUtils, Math;

begin
  {a}  writeln(2000 mod sqr(17));           //integer
  {b}  writeln(sqrt(3)/(61*sqr(61)));      //extended ou real
  {c}  writeln(4.147*(499.07+899.8));      //extended ou real
  {d}  writeln(19-ceil(53.27*40.89));      //integer
  {e}  writeln((3<5) and (7>9));          //boolean
      readln
end.

```



Question 2

(1) Pas de ; avant else ! Donc :

```

if a>=b then begin a:=20-b; b:=40+a end
else begin a:=40-b; b:=10+a end;

```

(2) Tableau d'exécution du programme exercice

<i>a</i>	<i>b</i>
16	/
16	80
30	30
-10	30

Question 3

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program equ2edegre;

{$APPTYPE CONSOLE}

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```

uses
    SysUtils;

var a,b,c,delta:extended;

begin
    writeln('Equation a*x^2+b*x+c=0');
    write('Entrez les coefficients a, b et c : ');
    readln(a,b,c);
    if a=0 then writeln('Cette equation n''est pas du 2e degre')
    else begin
        delta:=sqr(b)-4*a*c;
        if delta>0 then writeln('Cette equation a 2 solutions
distinctes')
        else if delta=0 then writeln('Cette equation a 1
solution')
        else writeln('Cette equation n''a pas de
solution')
        end;
    readln
end.

```

Question 4

```

program Suites;

{$APPTYPE CONSOLE}

uses
    SysUtils;

var i,n,a,b,temp:integer;

begin
//1 (3 points)
    for i:=10 downto 1 do write(2000+100*i:6);writeln;
//2 (3 points)
    for i:=0 to 9 do write(6+7*i:6);writeln;
//3 (4 points)
    n:=1;
    for i:=1 to 10 do
        begin
            write(n:6); n:=n*3
        end;
    writeln;
//4 (4 points)
    n:=20;
    for i:=1 to 5 do
        begin
            n:=n-5; write(n:6);
            n:=n+20; write(n:6)
        end;
    writeln;

```

```
    readln  
end.
```

Question 5

12 points

```
program Rectangle;  
  
{$APPTYPE CONSOLE}  
  
uses  
    SysUtils;  
  
var larg,haut,i,j:integer;  
  
begin  
    write('Entrez la largeur : '); readln(larg);  
    write('Entrez la hauteur : '); readln(haut);  
    for i:=1 to larg do write('*'); writeln;  
    for j:=1 to haut-2 do  
        begin  
            write('*');  
            for i:=1 to larg -2 do write(' ');  
            writeln('*');  
        end;  
    for i:=1 to larg do write('*'); writeln;  
    readln;  
end.
```

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