**begin\_functions**

VECTO VECTO(DIEM,DIEM){}

**end\_functions**

**----------------------------------------------------------------------**

begin\_functions

begin\_function: VECTO(A,B)

A,B: DIEM

return a:VECTO

begin\_proc

local a;

a[1]:=B[1]-A[1];

a[2]:=B[2]-A[2];

a:=[a[1],a[2]];

return a;

end\_proc

properties

end\_properties

end\_function

begin\_function: TRUNGDIEM(A,B)

A,B: DIEM

return I:DIEM

begin\_proc

local I;

I.x:=(A.x+B.x)/2;

I.y:=(A.y+B.y)/2;

return I;

end\_proc

properties

end\_properties

end\_function

begin\_function: KHOANGCACH(A,B)

A,B: DIEM

return d:REAL

begin\_proc

local d;

d:=sqrt((B.x-A.x)^2+(B.y-A.y)^2);

return d;

end\_proc

properties

end\_properties

end\_function

begin\_function: GOC(A,B)

A,B: DIEM

return goc:real

begin\_proc

local goc;

goc:=arccos( abs(a.x\*b.x+a.y\*b.y)/(sqrt((a.x+a.y)^2)+sqrt((b.x+b.y)^2));

return goc;

end\_proc

properties

end\_properties

end\_function

begin\_function: DOIXUNG(A,B)

A,B: DIEM

return G:DIEM

begin\_proc

local G;

G.x:=2\*B.x-A.x;

G.y:=2\*B.y-A.y;

return G;

end\_proc

properties

G=TRUNGDIEM(A,B)

end\_properties

end\_function

end\_functions

begin\_function: TRONGTAM(A,B,C)

A,B,C: DIEM

return I:DIEM

begin\_proc

local I;

I.x:=(A.x+B.x+C.x)/3;

I.y:=(A.y+B.y+C.y)/3;

return I;

end\_proc

properties

DOAN[A,G].a=DOAN[B,G].a;

DOAN[A,G].a=DOAN[C,G].a;

end\_properties

end\_function