begin\_rules

begin\_rule 1

kind\_rule="0";

hypothesis\_part:

{ A,B : DIEM }

end\_hypothesis\_part

goal\_part:

{VECTO[B, A] , VECTO[A, B] }

end\_goal\_part

end\_rule

begin\_rule 2

kind\_rule="1";

a,b : Vecto;

hypothesis\_part:

{ [“CungHuong”,a,b]; a.a = b.a}

end\_hypothesis\_part

goal\_part:

{[“=”,a,b]}

end\_goal\_part

end\_rule

begin\_rule 3

kind\_rule="2";

a,b,c : Vecto;

hypothesis\_part:

{[“CungPhuong”,a,b], [“CungPhuong”,c,b]}

end\_hypothesis\_part

goal\_part:

{[“CungPhuong”,a,c]}

end\_goal\_part

end\_rule

begin\_rule 4

kind\_rule="2";

a,b,c : Vecto;

hypothesis\_part:

{[“CungHuong”,a,b], [“CungHuong”,c,b]}

end\_hypothesis\_part

goal\_part:

{[“CungHuong”,a,c]}

end\_goal\_part

end\_rule

begin\_rule 5

kind\_rule="2";

a,b,c : Vecto;

hypothesis\_part:

{[“=”,a,b], [“=”,c,b]}

end\_hypothesis\_part

goal\_part:

{[“=”,a,c]}

end\_goal\_part

end\_rule

begin\_rule 6

kind\_rule="3";

hypothesis\_part:

{ A,B,C : Diem;}

end\_hypothesis\_part

goal\_part:

{ Vecto[A,C] = Vecto[A, B] + Vecto[B, C],Vecto[A,B] = Vecto[A, C] + Vecto[ C, B],Vecto[B,A] = Vecto[B, C] + Vecto[C, A],Vecto[B,C] = Vecto[B, A] + Vecto[A, C],Vecto[C,A] = Vecto[C, B] + Vecto[B, A],Vecto[C,B] = Vecto[C, A] + Vecto[A, B] }

end\_goal\_part

end\_rule

begin\_rule 7

kind\_rule="3 ";

A,B,C :Diem;

hypothesis\_part:

{ ["HinhBinhHanh", A, B, C] }

end\_hypothesis\_part

goal\_part:

{ Vecto[A,C] = Vecto[A, B] + Vecto[A, D],Vecto[C,A] = Vecto[C, B] + Vecto[C, D],Vecto[B,D] = Vecto[B, A] + Vecto[B, D],Vecto[D,B] = Vecto[D, A] + Vecto[D, C] }

end\_goal\_part

end\_rule

begin\_rule 8

kind\_rule="3";

hypothesis\_part:

{a, b: VECTO}

end\_hypothesis\_part

goal\_part:

{[“+”,a,b] = [“+”,b,a]}

end\_goal\_part

end\_rule

begin\_rule 9

kind\_rule="1";

M,A,B : Diem;

hypothesis\_part:

{[“TrungDiem”,M,Doan[A,B]] }

end\_hypothesis\_part

goal\_part:

{Vecto[M,A] + Vecto[M,B] = Vecto[M,M]}

end\_goal\_part

end\_rule

begin\_rule 10

kind\_rule="1";

A,B,C,G : Diem;

hypothesis\_part:

{ [“TrongTam”,G, [“TamGiac”,A,B,C]]}

end\_hypothesis\_part

goal\_part:

{Vecto[G,A] + Vecto[G,B] + Vecto[G,C] = Vecto[G,G]}

end\_goal\_part

end\_rule

begin\_rule 11

kind\_rule="2";

M,A,B, O : Diem;

hypothesis\_part:

{[“TrungDiem”,M,Doan[A,B]] }

end\_hypothesis\_part:

goal\_part:

{ Vecto[O,A] + Vecto[O,B] = 2 \* Vecto[O,M]}

end\_goal\_part

end\_rule

begin\_rule 12

kind\_rule="2";

hypothesis\_part:

A,B,C,G,O : Diem;

hypothesis\_part:

{ [“TrongTam”,G, [“TamGiac”,A,B,C]]}

end\_hypothesis\_part

goal\_part:

{Vecto[O,A] + Vecto[O,B] + Vecto[O,C] = 3\*Vecto[O,G]}

end\_goal\_part

end\_rule

begin\_rule 13

kind\_rule="1";

{a, b: VECTO}

hypothesis\_part:

{[“+”,a,b] = Vecto[0]}

end\_hypothesis\_part

goal\_part:

{[“VectoDoi”,a,b]}

end\_goal\_part

end\_rule

begin\_rule 14

kind\_rule="2";

hypothesis\_part:

{A,B : Diem}

end\_hypothesis\_part

goal\_part:

{[“VectoDoi”,Vecto[A,B],Vecto[B,A]]}

end\_goal\_part

end\_rule

begin\_rule 15

kind\_rule="2";

hypothesis\_part:

{O,M,N : Diem}

end\_hypothesis\_part

goal\_part:

{Vecto[M,N] = Vecto[O,N] – Vecto[O,M]}

end\_goal\_part

end\_rule

begin\_rule 16

kind\_rule="2";

a, b: VECTO;

hypothesis\_part:

{ [“VectoDoi”,a,b]}

end\_hypothesis\_part

goal\_part:

{[“NguocHuong”,a,b], a.a = b.a}

end\_goal\_part

end\_rule

begin\_rule 17

kind\_rule="1";

a: VECTO, k : Real

hypothesis\_part:

{ k >= 0}

end\_hypothesis\_part

goal\_part:

{[“CungHuong”,a, k\*a]}

end\_goal\_part

end\_rule

begin\_rule 18

kind\_rule="1";

a: VECTO, k : Real

hypothesis\_part:

{ k < 0}

end\_hypothesis\_part

goal\_part:

{[“NguocHuong”,a, k\*a]}

end\_goal\_part

end\_rule

begin\_rule 19 ???

kind\_rule="1";

A,B,C : Diem;

k : Real

hypothesis\_part:

{Vecto[A,B] = k \* Vecto[A,C] }

end\_hypothesis\_part

goal\_part:

{[“+”,a,b] = [“+”,b,a]}

end\_goal\_part

end\_rule

end\_rules