**public** **static** Cons solve(Cons e, String v)

{

System.*out*.println("v is " + v);

**if** (*lhs*(e).equals(v))

**return** e;

**else** **if** (*rhs*(e).equals(v))

**return** e = *list*("=",*rhs*(e),*lhs*(e));

**else** **if** ( !*consp*(*rhs*(e)))

**return** **null**;

**else**

{

Cons result;

**for** (Cons arg = *algpats* ; arg != **null** ; arg = *rest*(arg))

{

Object trs = *transformlst* ((Cons)*first*(arg),e);

System.*out*.println("trs is " + trs);

**if** ((!trs.equals(e)) && ((result = *solve*((Cons)trs,v)) != **null**))

{

System.*out*.println("result is " + result.toString());

**return** result;

}

}

}

**return** **null**;

/\*Object trans = transformfp(algpats, first(e));

System.out.println(" der: " + trans.toString());

Object transopt = transformfp(optpats, trans);

System.out.println(" opt: " + transopt.toString()); \*/

}