EE 4785 **Homework 3** **Due: 4 March 1996**

Problem 1: Write a version of `safeIs` that evaluates all numerical arguments to a commutative operator even if they are interspersed with non-evaluatable terms. For example:

```
 ?- X safeIs 1+a+2.

X = a+3

yes
 ?- X safeIs 1+2*a*3+4.

X = a*6+5

yes
 ?- X safeIs 7+1*a*2*b*3+1+c+d*5.

X = a*b*6+c+d*5+8

yes
```

In the last example, 7 and 1 are added despite the intervening term. Similarly, 2 and 3 are multiplied.