# **Conservative Entailment**

### **Solutions**

5 is solution of E in D if  

$$\forall s=t \in E$$
. Don = Rot

Gert Smolka, May 5, 2005

# **Solving Equation Systems**

Solving E means to derive E'p.t.

2) Solutions of E' are obvions

E' is called solved form of E

# **Example**

$$\begin{cases} x + 2y = 1 \end{cases} \xrightarrow{\chi} \begin{cases} x + 2y = 1 \end{cases}$$

$$\begin{array}{c} \mathcal{Z} \\ \mathcal{$$

### **Conservative Entailment**

Stable under substitution

### **Conservative Deduction**

# **Conservative Rewriting**

# **Capture-free Replacement**