Should be able to use **t** for time in ~~differential~~ equations. M 2PP

Modeller: should be able to typ "t" in the equation textbox that should be recognized as time.

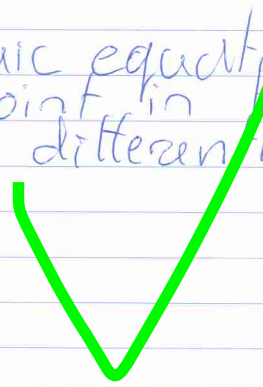
If the user has defined a parameter ~~and stopped~~ it gets an error if he tries to redefine it as a state M 2PP

Actor: Modeller

The user can add an algebraic eq. M ← S 4PP

Actor: modeller

An algebraic equation can change at any point in time, but should be solved differently from an ODE.



Algebraic equations should work in Runtime M 6PP

$$\frac{dx}{dt} = -k_2 \cdot x \quad (I)$$

$$\frac{dy}{dt} = a$$

$$a = -k_2 \cdot x \quad (II)$$

These should evaluate the same.

Save model default by modelname as modeller M 1PP

the model has a name, So saving must be modelname.model

Save data as CSV M ← C 2PP

Experimenter: should be able to save the data as a csv file.

The user can plot a phase plane S 4PP

Actor: Experimenter

A phase plane: plots one state against an other state

Simulate Results algebraic EQ S 6PP

As a Modeller, I want to be able to show results of algebraic equations added to the model.