This document demonstrates the usage of two different formula categories. One is Arabic, one is Roman numbered.

A = B	(1)
A = C	(2)
A = D	(i)
A = E	(ii)
A = F	(3)
A = G	(4)
A = H	(iii)
A = I	(iv)

 ${\rm Cross-references:} \ (1) \ , \ (2) \ , \ (3) \ , \ (4) \ , \ (i) \ , \ (ii) \ , \ (iii) \ , \ (iv)$

```
\label{eq:linear} $$ \operatorname{remewcounter{rom}} (\operatorname{remewcommand{\therom}} ) \
```

To save the value of the Arabic counter **equation**, this is added to the preamble

```
\newcommand{\c@org@eq}{}
\let\c@org@eq\c@equation
\newcommand{\org@theeq}{}
\let\org@theeq\theequation
```

To be able to switch in the document between the two numbering schemes, the following commands are defined in the preamble:

for Roman numbering and

for Arabic numbering.

Every formula will be by default numbered Arabic. To switch to Roman numbering, the command \setrom is inserted in T_EX-mode. With the command \setarab the numbering is switched to Arabic.