Introduction to Mathematics with Maple: Maple 8 and Maple 9 update

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Maple update

The use of *Maple* in this book is rather basic and there are only a few minor changes needed for the use of either *Maple 8* or *Maple 9*. These are listed below.

Page 16 Original text: > Digits:=3 ... would stop. Replacement for both Maple 8 and Maple 9: > Digits:=3: 1/(22-7*sqrt(2)-7*sqrt(3)); $(22-7\sqrt{2}-7\sqrt{3})^{-1}$ > 1/(22-7*sqrt(2.0)-7*sqrt(3.0));

 $Float(\infty)$

This result means that *Maple's* answer is a number so large that it is out of computer's reach. If the above symbol appeared somewhere in a long calculation the process would either stop or the result would be erroneous.

Page 28 Comment: Maple 8 and Maple 9 contain _Z1 and _Z2 instead of original's _N1 and _N2, respectively. This is inessential.

Page 75 Comment:

Maple 9 gives the correct answer and there is no need for any simplification which followed in the original text on pages 76—77.

Page 80 Comment:

Maple 8 and Maple 9 give false instead of Maple 7 Fail. We ought to understand this as saying that the inequality is not true for all x.

Page 223 Comment:

Our approach to solving the equation ceq was intentionally clumsy in order to show that there were some problems in simplification of the result on top of page 223. *Maple* 9, however, was able to cope with the imperfect approach and gives the correct simplified result right away. However the point that one should apply solve directly to the equation with numeric coefficients is still valid.

Page 480 Comment:

There is a misprint on line 5. The symbol t5 should be replaced by t6.

Page 505 Comment:

Both *Maple* 9 and *Maple* 8 are more powerfull and thre is no discrepency between the results of rt2 and sqrt.