
Subject: CURVEFIT

Posted by [Andreas Ernst](#) on Wed, 02 Jun 2004 15:26:28 GMT

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Hi,

(1) I am using CURVEFIT to fit a straight line through my data points. My user-supplied function looks like this:

```
PRO gerade, X, A, F, PDER
F=A[0]+A[1]*X
IF N_PARAMS() GE 4 THEN $
  PDER = [[REPLICATE(1.0, N_ELEMENTS(X))], [X]]
RETURN
END
```

Anyway, even though it defines a straight line, the routine CURVEFIT seems to fit some other curve through the data points, which is something else than a straight line, maybe a higher-order polynomial. What is the reason for this?

(2) I had problems with fitting data points with polynomials higher than third order, like fourth or fifth order. Is this problem known?

Thanks in advance. Andreas
