

we get

$$\frac{1}{\alpha} f_1(1) + \frac{1}{\alpha^2} f_2(1) + \frac{1}{\alpha^3} f_3(1) = 0 .$$

This evidently implies

$$f_1(1) = f_2(1) = f_3(1) = 0 ,$$

which contradicts (7.21).

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[Continued from page 80.]

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