

四川大当

Sichuan University

Chengdu, 610207, Sichuan, P.R.China Http://www.scu.edu.cn

1-17-12
$$x_{i+1} = x_i - \frac{f(x_i)}{f(x_i)}$$
 $f(x) = -\frac{f(x_i)}{x_i}$

$$x_2 = \frac{x_1 f(x_0) - x_0 f(x_0)}{f(x_0) - f(x_0)} = \frac{8}{5}$$

$$x_3 = \frac{x_2 f(x_1) - x_1 f(x_2)}{f(x_1) - f(x_2)} = \frac{163}{97} = 1.74227$$

$$\frac{2f(\frac{8}{4}) - \frac{8}{4}f(2)}{\frac{8}{4} - 2} = \frac{169}{97} = 1.7427$$



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X4=X3-rcr-q)(X3-X2)+(1-r)5(X3-X.) = 24/ 2028 -0.1/9/6

eit1 = | f"(r) |= 1.26134

ei = |f"(r) |d-1 = 1.26134 = = 1.1543

为超线性收敛

(し) そ初上送代, g,(x)=き+対, g;(x)=デーシャ

lim 色i こり(い)この 元性収数

tim ei = g'(y) = 6

1. 速度B>D>A>C

可以使用牛顿方法进行丰解,对于(x)=x4-2, f(x)=4x3

f(r)=f(24)=4.24 +0

可以安观二次收敛

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