

sci.math: f is constant?

## f is constant?

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**From:** Betelgeuse (*betelgeuse\_at\_rigel.bellatrix*)

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Let  $f:(a,b) \rightarrow \mathbb{R}$  be differentiable in every point.

Assume also that I know that  $f'(x)=0$  for

all  $x$  in  $A$ , where  $A$  is an open dense subset of  $(a,b)$ .

Can I conclude that  $f$  is a constant function?

Thanks in advance.

Jenny