

# help with a basic differentiability and derivative function

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very basic problem...can anyone help me with the proof?

$$f(x) = x^2 - 3x + 8 \text{ if } x > 1$$
$$f(x) = 2x^2 + x + 3 \text{ if } x \leq 1$$

using epsilon-delta property can you prove that  $f(x)$  is differentiable at all points except  $x=1$  and that it is not differentiable at 1?

thanx

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- *Follow-Ups:*
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    - ◇ *From:* David Wilkinson
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