

dummy variable in FO

Source: <http://sci.tech-archive.net/Archive/sci.math/2006-05/msg03660.html>

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 - *Date:* 20 May 2006 00:10:38 -0700
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Suppose x does not occur free in ϕ .

Show that

$\models (\exists x \phi) \leftrightarrow \phi$

and

$\models (\forall x \phi) \leftrightarrow \phi$

I don't really know how to do this. Thank you.

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