

Re: Homotopic maps

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 - *Date:* Wed, 23 Nov 2005 14:30:06 +0000 (UTC)
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On Tue, Nov 22, 2005 3:30 PM, <pkornman@xxxxxxxx> wrote:

> If $n \geq 3$, let $g: S^n \rightarrow S^n$ be the map $g(x_1,$
> $\dots, x_n, x_{n+1}) =$
> $(x_1, \dots, x_n, |x_{n+1}|)$. Notice that $\text{im } g$ lies in
> the closed upper
> hemisphere H of S^n which is a disk D^n . Let $h: H \rightarrow$
> S^n be the map
> that takes $\text{Bd } D^n$ to the southpole and maps $\text{int } D^n$
> onto $S^n - \{\text{south}$
> $\text{pole}\}$. Let $f(x) = h(g(x)): S^n \rightarrow S^n$. Since f
> factors through a disk
> it's inessential. That is, f is an inessential map of
> S^n onto S^n .
>

Maybe, you forgot that in my original question
 f is required to be an INJECTIVE continuous map!!!

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