Re: Homotopic maps

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

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- ***Follow−Ups***:
  - ***Re: Homotopic maps***
    - ◊ *From:* ptk

- ***References***:
  - ***Re: Homotopic maps***
    - ◊ *From:* Maury Barbato

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