

Re: free and fixed pulley

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- *From:* cncutwiler@xxxxxxxxxxxxxx
 - *Date:* 21 Apr 2005 04:57:40 -0700
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Bouwman wrote:

- > hi guys,
- > Consider the well known system of one fixed and one free pulley.
- > A weight on the free pulley.
- > I know that my pulling force is half the force of gravity on the weight.
- > Why that is I understand.
- > What I do not get is why i have to haul in twice as much rope compared
- > to the change in height of the weight.
- >
- > My suspicion is that it has something to do with the cycloid. Because

- > the free pulley rols upwards. I checked the formulas but I could not
- > find a factor 2.
- >
- > thanks in advance, Peter

Look at the load bearing wheel as a wheelbarrow with string handles.

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• *References:*

- ◆ [*free and fixed pulley*](#)
- ◇ *From:* Bouwman

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