

Forces-Work

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Hi everybody!

Just wondering if you could help me out here:

An object is attracted toward the origin with a force $F_x = -k/x^2$.

1. Calculate the work done by F_x when moving the object in the x direction from a to b . (I have already done this part by integrating F_x with respect to x and got the answer $k*(1/b - 1/a)$)

2. The only other force acting on the object is a force that you exert with your hand to move the object slowly from a to b . How much work do you do? (This is the part I have no clue about)

Thanks in advanced for the help

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