
```
%Given values
k = 500;           %N/m
m = 5;            %kg
h = .3;           %m
L0 = .5;          %m
my = 0.05;
g = 9.81;         %m/s^2
G = -m*g;         %N

x = linspace(0.4,0.75,1000);
Fy = -k*h.*(1-L0./sqrt(x.^2+h^2));
Fx = -k.*x.*(1-L0./sqrt(x.^2+h^2));
N = -(Fy + G);
Fd = -my.*N;
AllFx = abs(Fx + Fd);
trapz(x,AllFx)

%ans = 25.1074
```

ans =

25.1074

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