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```
clear; clc;
l = (.001:.001:2000);

a = 4000;

r = -2.*l/pi + 2./pi*sqrt(l.^2+(a.*pi/2));

plot(l,r)

xlabel('radius')
ylabel('length')
title('radius vs lenght keeping area = 4000')

cost = (60.*pi.*r) + 20*((2.*r)+(2.*l));

[mincost,idx] = min(cost)

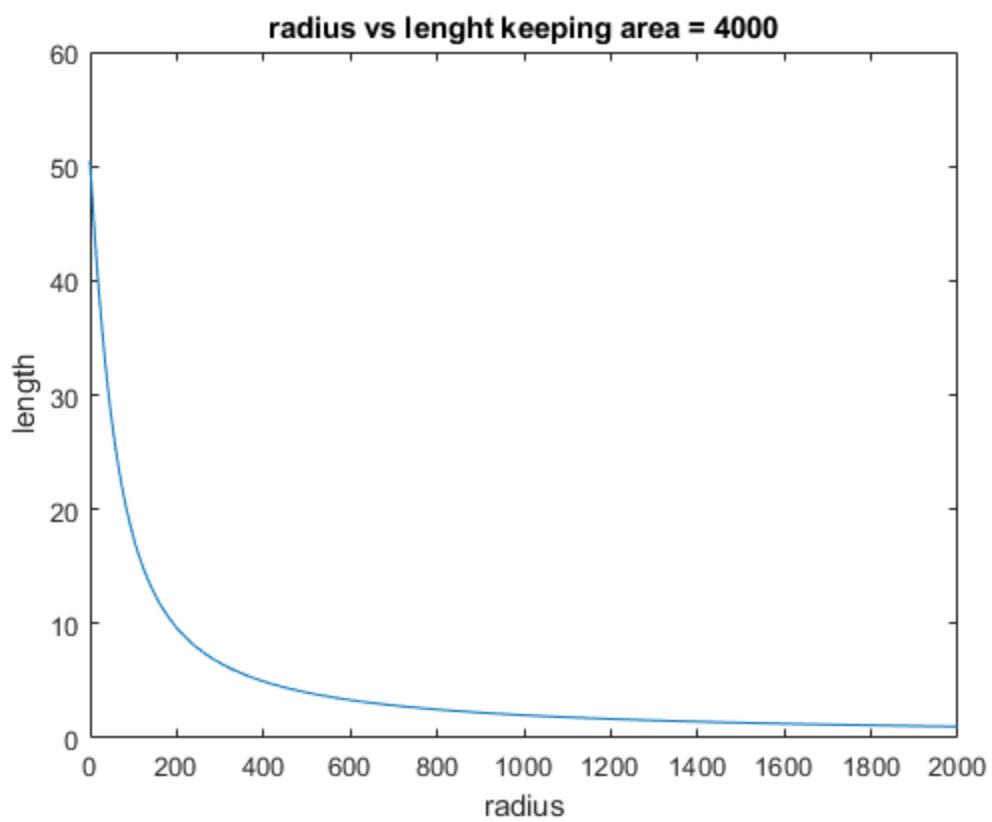
% mincost = 7941.4 idx = 83443

mincost =

7.9414e+03

idx =

83443
```



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