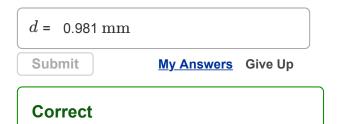
## Exercise 24.7

A parallel-plate air capacitor is to store charge of magnitude 270 pC on each plate when the potential difference between the plates is 44.0 V .

## Part A

If the area of each plate is 6.80  $cm^2\,,$  what is the separ Express your answer with the appropriate units.



## Part B

If the separation between the two plates is double the v of magnitude 270 pC on each plate?

Express your answer with the appropriate units.