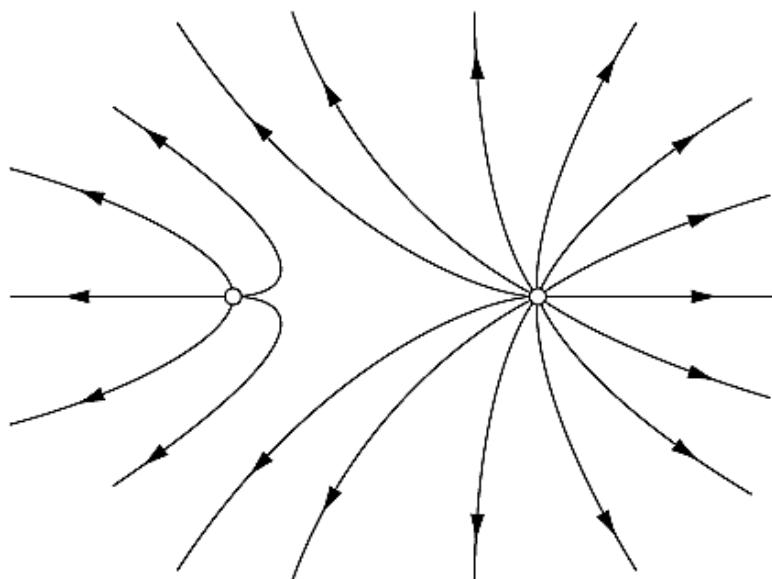


The electric field pattern around two charges of $+1.0 \mu\text{C}$ and $+4.0 \mu\text{C}$ is shown below.



The distance between the two charges is 6.0 cm.

There is a point of zero field strength along the line joining the two charges.

Which of the following could be the location of this point from the $1.0 \mu\text{C}$ charge?

A

4.0 cm to the right of the $+4.0 \mu\text{C}$ charge

B

2.0 cm to the left of the $+4.0 \mu\text{C}$ charge

C

2.0 cm to the right of the $+1.0 \mu\text{C}$ charge

D

4.0 cm to the left of the $+1.0 \mu\text{C}$ charge