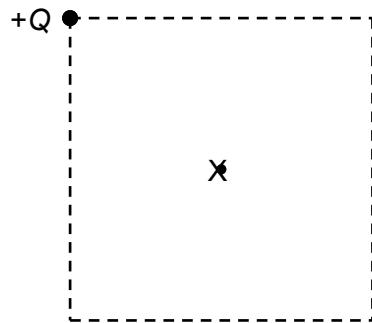


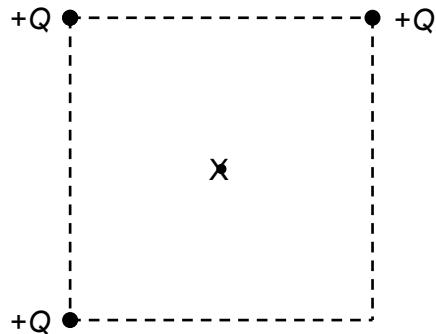
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A point charge $+Q$ is placed at the top-left hand corner of a square as shown.



At the centre X of the square, the electric field strength is E and the electric potential is V .

Two additional point charges of the same magnitude $+Q$ are placed at the top-right and bottom-left corners of the square as shown.



What are the electric field strength and the electric potential at the centre X of the square?

electric field strength

electric potential

A

E

$1.5V$

B

E

$3V$

C

$2E$

$3V$

D

$3E$

$3V$

