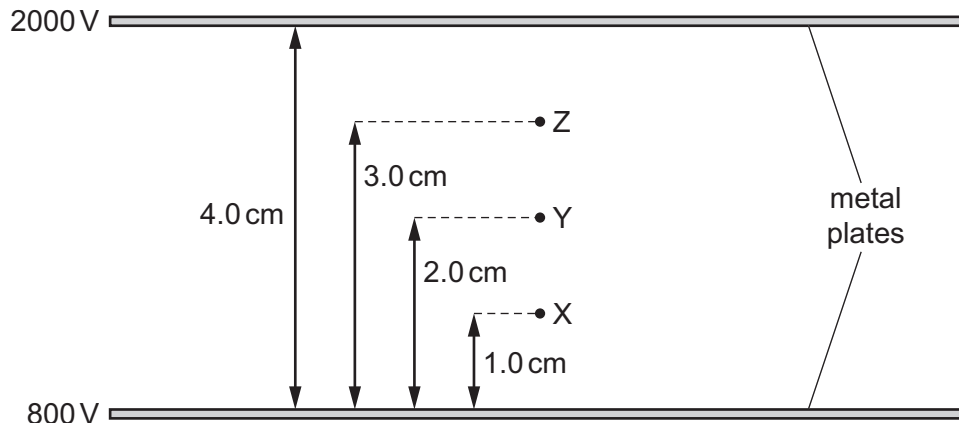


- 31** Two parallel metal plates, 4.0 cm apart, are at electric potentials of 800 V and 2000 V. Points X, Y and Z are situated in the space between the plates at distances of 1.0 cm, 2.0 cm and 3.0 cm from the lower plate.



What is the electric field strength, in  $\text{V m}^{-1}$ , at X, Y and Z?

	X	Y	Z
<b>A</b>	300	600	900
<b>B</b>	1100	1400	1700
<b>C</b>	$3.0 \times 10^4$	$3.0 \times 10^4$	$3.0 \times 10^4$
<b>D</b>	$5.0 \times 10^4$	$5.0 \times 10^4$	$5.0 \times 10^4$