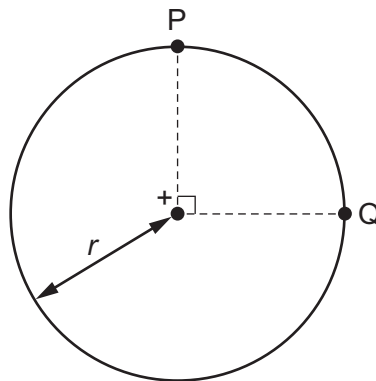


29 The diagram shows two points P and Q which lie 90° apart on a circle of radius r .

A positive point charge at the centre of the circle creates an electric field of magnitude E at both P and Q.



Which expression gives the work done in moving a unit positive charge from P to Q?

- A** 0 **B** $E \times r$ **C** $E \times \left(\frac{\pi r}{2} \right)$ **D** $E \times (\pi r)$

Space for working