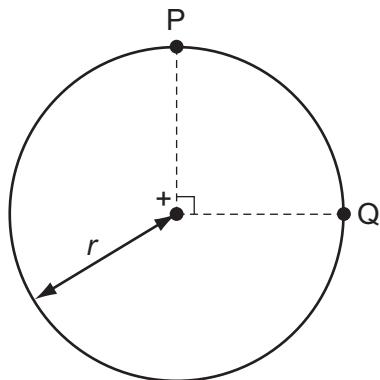


27 The diagram shows two points P and Q which lie, 90° apart, on a circle of radius r .

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