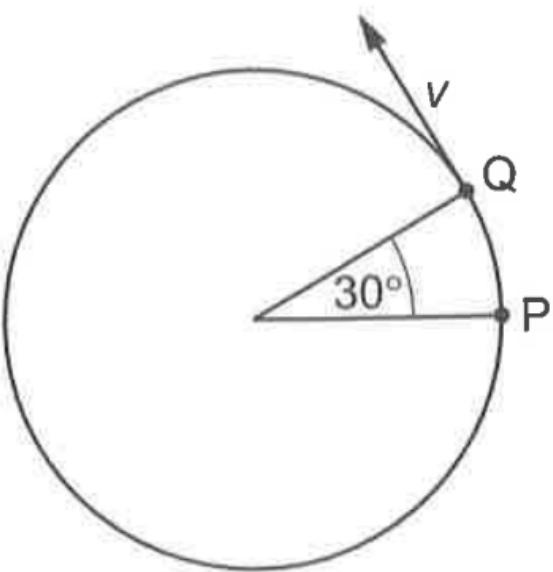


16 A particle moves in a circle of radius  $r$  with constant speed  $v$ .



What is the magnitude of the change in velocity between P and Q?

A zero

B  $v \sin 30^\circ$

C  $v$

D  $2v \sin 15^\circ$

17 On a rotating fairground ride, passengers move in a vertical circle of radius 4.00 m. Passengers