

- 7 Mass m moves in a horizontal circle of radius r at a constant angular speed ω .

Which pair of values correctly gives the work done by the centripetal force and the change in linear momentum of the body when it moves a distance in the time of π/ω ?

	Work done	Change in linear momentum
A	0	$2mr\omega$
B	$\pi mr^2\omega^2$	$2mr\omega$
C	0	0
D	$2mr^2\omega^2$	$2mr\omega$