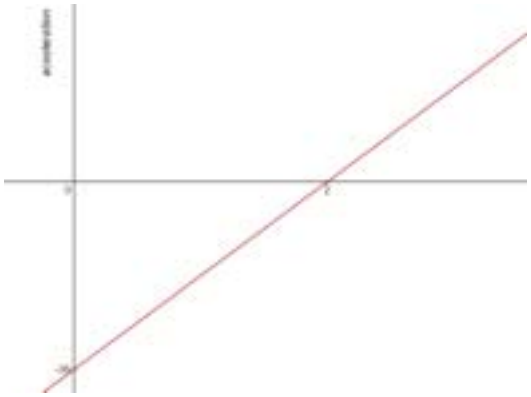
Question	Answer	Marks	Guidance
9(d)(ii)		**2**	**B1** for a correctly positioned straight line graph for the given domain. **Dep B1** for $(0,-36)$ and $(2,\ 0)$
10(a)	$\cos^4\theta-\sin^4\theta=$ $\left(\cos^2\theta-\sin^2\theta\right)\left(\cos^2\theta+\sin^2\theta\right)$ soi	**B1**	
	$\cos^2\theta-\sin^2\theta+1$	**M1**	Must show sufficient detail to show the given result.
	$2\cos^2\theta$	**A1**	
	Alternative 1		
	$\cos^4\theta-\left(1-\cos^2\theta\right)^2+1$	**(B1)**	
	$\cos^4\theta-\left(\cos^4\theta-2\cos^2\theta+1\right)+1$	**(M1)**	Must show sufficient detail to show the given result.
	$2\cos^2\theta$	**(A1)**	
	Alternative 2		
	$\left(1-\sin^2\theta\right)^2-\sin^2\theta+1$	**(B1)**	
	$\left(1-2\sin^2\theta+\sin^4\theta\right)-\sin^4\theta+1$ $2-2\sin^2\theta$	**(M1)**	Must show sufficient detail to show the given result.
	$2\cos^2\theta$	**(A1)**	
10(b)	$\cos\left(\frac{\phi}{3}\right)=(\pm)\frac{1}{2}$ soi	**B1**	
	$\phi=-2\pi,\ -\pi,\ \pi,\ 2\pi$	**4**	**M1** for obtaining one correct solution. **A1** for obtaining 2 correct solutions. **A1** for obtaining a third correct solution. **A1** for a fourth correct solution and no extras within the range.

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