

Question	Answer	Marks	Guidance
	Use product rule to differentiate $e^{2x} \cos 2y$	M1	Must be evidence of implicit differentiation
	Obtain $2e^{2x} \cos 2y - 2e^{2x} \sin 2y \frac{dy}{dx}$	A1	
	Obtain $\left[2e^{2x} \cos 2y - 2e^{2x} \sin 2y \frac{dy}{dx} + \right] \cos y \frac{dy}{dx} = 0$	B1	
	Substitute x - and y -values to find value of first derivative	M1	Dependent at least two terms, with at least one involving $\frac{dy}{dx}$
	Obtain $\frac{2}{\sqrt{3}}$ or $\frac{2}{3}\sqrt{3}$ or exact equivalent	A1	
		5	

