

000000EXCELL FILE TEMPLATE
for
2019/1 TMA UPLOAD

SN	CRSCODE	QUESTION	OPTION A
1	MTH281	Obtain the n-th differential coefficient of $y = x(\log_e x)$	$(2^{n-3}e^x)$
2	MTH281		$((-1)^{n-2})$
3	MTH281	Use Leibnitz theorem to find the second derivative of $\sin x$	$(2 \sin x)$
4	MTH281	Compute the third derivative of $\sin x \ln x$	$((2x^{-2}-3x)$
5	MTH281	Use Leibnitz theorem to evaluate the fourth derivative of $\sin x$	$(16 \sin x)$
6	MTH281	Evaluate the stationary points of the function $y = 3x^2 - 12x + 1$	$(c=3)$
7	MTH281	Find the first partial derivative of the function $f(x, y) = x^2 + y^2$	$(\frac{\partial f}{\partial x})$
8	MTH281	Evaluate the second partial derivative of the function $f(x, y) = x^2 + y^2$	$(\frac{\partial^2 f}{\partial x^2})$
9	MTH281	Find the total differential of the function $f(x, y) = x^2 + y^2$	$(df = 2x dx + 2y dy)$
10	MTH281	Find the total differential of the function $f(x, y) = x^2 + y^2$	$(2x + 2 \sin x)$

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OPTION B	OPTION C	OPTION D	ANS	TMANO
$\frac{1}{2}e^{n-2}(4x^3+5nx+\dots)$	$\frac{1}{2}e^{n-2}$	$\frac{1}{2}e^n$	C	TMA2
$\frac{(-1)^{n-2}}{(n-2)!}x^{n-1}$	$\frac{(-1)^{n-1}}{(n-1)!}x^{n-1}$	$\frac{(-1)^{n+1}}{(n+1)!}x^{n+1}$	B	TMA2
$2\sin x(1-5\cos^3 x)$	$3\sin x(2-9\cos^2 x)$	$2\cos x(3-\sin^2 x)$	A	TMA2
$\frac{(x^3-x^2)\cos x-(x^2+x-2)\sin x}{(x^3-x^2)^2}$	$\frac{(2x^3-3x^2-3x+2)\cos x-(2x^3-3x^2-3x+2)\sin x}{(2x^3-3x^2-3x+2)^2}$	$\frac{(3x^3-4x^2-4x+3)\cos x-(3x^3-4x^2-4x+3)\sin x}{(3x^3-4x^2-4x+3)^2}$	C	TMA2
$8\left(x^2+5x+14\right)^{-1/2}$	$10\left(3x^2+10x+7\right)^{-1/2}$	$16\left(3x^2+10x+7\right)^{-1/2}$	A	TMA2
$((0,0), (0,0), (0,0), \pm(0,0))$	$((0,0), (0,0), (0,0), \pm(0,0))$	$((0,0), (0,0), (0,0), \pm(0,0))$	D	TMA2
$\frac{\partial f}{\partial x}=6$	$\frac{\partial f}{\partial x}=6$	$\frac{\partial f}{\partial x}=6$	A	TMA2
$\frac{\partial^2 f}{\partial x^2}$	$\frac{\partial^2 f}{\partial x^2}$	$\frac{\partial^2 f}{\partial x^2}$	C	TMA2
$\int y e^{x+y} dx - \int (1+y)e^x dx$	$\int y e^x dx - \int (1+y)e^x dx$	$\int y e^x dx - \int (1+y)e^x dx$	A	TMA2
$(2x+3\sin^{-1} x+\frac{3x}{1-x^2})'$	$(x+\sin^{-1} x+\frac{3x}{1-x^2})'$	$(2x+\sin^{-1} x+\frac{3x}{1-x^2})'$	B	TMA2

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