

000000EXCELL FILE TEMPLATE
for
2019/1 TMA UPLOAD

SN	CRSCODE	QUESTION
1	MTH382	Given that $\mathbf{A} = \sin t \mathbf{i} + \cos t \mathbf{j} + t \mathbf{k}$, evaluate $\left \frac{d^2 \mathbf{A}}{dt^2} \right $
2	MTH382	A particle moves along a curve whose parameter equations are $x = e^{-t}$
3	MTH382	A particle moves along the curve $x = 2t^2$, $y = t^2 - 4t$ and $z = 3t - 5$
4	MTH382	Determine the unit tangent at the point where $t = 2$ on the curve $x = t^2$
5	MTH382	If $\mathbf{A} = 5t^2 \mathbf{i} + t \mathbf{j} - t^3 \mathbf{k}$ and $\mathbf{B} = \sin t \mathbf{i} - \cos t \mathbf{j}$. evaluate $\frac{d}{dt}$
6	MTH382	If $\mathbf{A} = 5t^2 \mathbf{i} + t \mathbf{j} - t^3 \mathbf{k}$ and $\mathbf{B} = \sin t \mathbf{i} - \cos t \mathbf{j}$. evaluate $\frac{d}{dt}$
7	MTH382	If $\mathbf{A} = 5t^2 \mathbf{i} + t \mathbf{j} - t^3 \mathbf{k}$ and $\mathbf{B} = \sin t \mathbf{i} - \cos t \mathbf{j}$. evaluate $\frac{d}{dt}$
8	MTH382	If $\mathbf{A} = \sin u \mathbf{i} + \cos u \mathbf{j} + u \mathbf{k}$, $\mathbf{B} = \cos u \mathbf{i} - \sin u \mathbf{j} - 3 \mathbf{k}$ and $\mathbf{C} = 2\mathbf{i} + 3\mathbf{j} - \mathbf{k}$, e
9	MTH382	Let $\mathbf{A} = x^2 y \mathbf{i} - 2xz^3 \mathbf{j} - xz^2 \mathbf{k}$ and $\mathbf{B} = 4z \mathbf{i} + y \mathbf{j} + 4x^2 \mathbf{k}$, find $\frac{d}{dt}$
10	MTH382	solve $\frac{d^2 \mathbf{A}}{dt^2} - 4 \frac{d \mathbf{A}}{dt} - 5 \mathbf{A} = 0$

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OPTION A	OPTION B	OPTION C	OPTION D	ANS	TMANO
4	1	3	2	B	TMA3
$\sqrt{325}$	$\sqrt{215}$	$\sqrt{87}$	$\sqrt{115}$	A	TMA3
$8\sqrt{5}$	$-2\sqrt{5}$	$3\sqrt{5}$	$-5\sqrt{5}$	A	TMA3
$\frac{2}{5}$	$\frac{2}{5}$	$-\frac{1}{3}$	$\frac{2}{3}$	D	TMA3
$(5t^2-1)\cos t$	$(5t-1)\sin t$	$(-1)\cos t + 2t$	$(5t^2-1)\sin t$	A	TMA3
$(t^3)\sin t$	$(t^2)\sin t$	$(t)\sin t - 3t^2$	$(t)\cos t - 3t^2$	A	TMA3
$(112t^3+7)$	$(12t^3+2)$	$(100t^3+2)$	$(10t^3+t)$	C	TMA3
$(7i+6j-6k)$	$(2i+3j-k)$	$(i+2j-k)$	$(-i+3j+2k)$	A	TMA3
$(2i-8j)$	$(-4i-8j)$	$(-i-3j)$	$(5i-2j)$	B	TMA3
$(A=C_1)e^t$	$(A=-C_1)e^t$	$(A=C_1)e^t$	$(A=C_1)e^{-t}$	A	TMA3

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