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for
2019/1 TMA UPLOAD

SN	CRSCODE	QUESTION	OPTION A	OPTION B	OPTION C	OPTION D
1	MTH382	The gamma function is defined by \(\Gamma (x)=\int_{0}^{\infty} t^{x-1} e^{-t} dt\), evaluate \(\Gamma (x+1)\)	\(x\Gamma(x)\)	\(\Gamma(x+1)\)	\(\Gamma(x+1)\)	\(x\)
2	MTH382	Evaluate \(\Gamma (5)\)	12	25	6	24
3	MTH382	Evaluate \(\Gamma (-\frac{3}{2}\)	\(\frac{1}{4}\pi\)	\(\frac{4}{3}\pi\)	\(\frac{1}{3}\pi\)	\(\frac{1}{2}\pi\)
4	MTH382	The Beta function of (m,n) is defined as	\(\int_{0}^{1} x^{m-1}(1-x)^{n-1} dx\)	\(\int_{0}^{1} x^{m-1}(x)^{n-1} dx\)	\(\int_{0}^{2} x^{m-1}(p)^{n-1} dx\)	\(\int_{0}^{1} p^{m-1}(1-t)^{n-1} dx\)
5	MTH382	Evaluate \(\frac{\Gamma(3)\Gamma(\frac{5}{2})}{\Gamma(5.5)}\)	\(\frac{16}{316}\)	\(\frac{16}{110}\)	\(\frac{6}{23}\)	\(\frac{7}{10}\)
6	MTH382	Use the Gamma function to evaluate \(\int_{0}^{1}x^{4}(1-x)^{3} dx\)	\(\frac{2}{3}\)	\(\frac{1}{280}\)	\(\frac{1}{10}\)	\(\frac{3}{10}\)
7	MTH382	Use the result in question (4) to evaluate \(\beta (4,3)\)	\(\frac{1}{60}\)	\(\frac{1}{40}\)	\(\frac{1}{50}\)	\(\frac{1}{20}\)
8	MTH382	Solve the differential equation \(y^{''}-3y^{'}+2y=0\)	\(y(x)=c_{1}e^{x}+c_{2}e^{2x}\)	\(y(x)=c_{1}e^{2x}+c_{2}e^{2x}\)	\(y(x)=c_{1}e^{x}+c_{2}e^{-x}\)	\(y(x)=c_{1}e^{2x}+c_{2}e^{3x}\)
9	MTH382	Solve the initial value problen \(y^{''}+3y^{'}=0; y(0)=3, y^{'}(0)=6\)	\(P_{n}(x)=\frac{1}{2^{n} n!}\frac{d^{n}}{d x^{n}}\left((x^{2}+1)^{2}\right)\)	\(y=2+2e^{-3x}\)	\(y=5-2e^{-3x}\)	\(y=-e^{3x}+2e^{x}\)

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10	MTH382	Solve the initial value problen \(y^{''}-2y^{'}+y=0; y(1)=y^{'}(1)=0\)	\(y(0)=3\)	\(y(0)=1\)	\(y(0)=2\)	\(y(0)=0\)

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ANS	TMANO
A	TMA2
D	TMA2
B	TMA2
A	TMA2
D	TMA2
C	TMA2
A	TMA2
A	TMA2
C	TMA2

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D	TMA2

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