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MTH381

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1. Fourier series uses which domain representation of signals?

Time domain representation

--->> Frequency domain representation

Both A and B

Neither depends on the situation of A and B

2. The singularity of  $(f(z)=\frac{z+3}{(z-1)(z-2)})$  are

$$(z=1,3)$$

$$(z=1,0)$$

$$(z=2,3)$$

3. Evaluate the residue of  $(f(z)=\frac{1+e^z}{\sin z+z \cos z})$  at the pole where (z=0).

\(0\)

--->> 1

\(-1\)

\(\pm 1\)

4. What is an integral curve along a simple closed curve called?

Multiple Integral

Jordan Integral

--->> Countour Integral

Connected Integral

5. Find the pole of this function  $(f(z)=\frac{z-2}{z^2}\sin \frac{1}{z-1})$ 

--->> 2

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```
1
       \(-1\)
6. Find the Jacobian of p, q, r with respect to x, y, z given (p=x+y+z, q=y+z) and
       \(0\)
        2
       \(-1\)
    --->> 1
7. Find the (_{z\rightarrow y})
       \(16+6i\)
       \(16-6i\)
    --->> \(6+16i\)
       \(6-16i\)
8. What is the Laplace transform of the function \langle f(t)=t \rangle where \langle t \rangle = 0.
       \(s\)
       \(\frac{1}{s}\)
    --->> \(\frac{1}{s^2}\)
       \(\frac{1}{s^3}\)
9. The Stokeââ,¬â,,¢s theorem uses which of the following operation?
        Divergence
        Gradient
    --->> Curl
        Laplacian
10. Given that (u=\frac{yz}{x}), (v=\frac{xz}{y}) and (w=\frac{xy}{z}), then what is the
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value of  $\langle (x, y, z) \rangle$ ?

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2

\(-2\)

--->> 4

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