

Fundamentals of Engineering Exam Sample Math Questions

Directions: Select the best answer.

- The partial derivative $\frac{\partial y}{\partial x}$ of $y = x^2z + 3z^2x + 6(x+z)$ is:
 - $2xz + 3z^2 + 6$
 - $x^2z + 6zx + 6z$
 - $2x + 9$
 - $2x + 6z + 6$
- If the functional form of a curve is known, differentiation can be used to determine all of the following EXCEPT the
 - concavity of the curve.
 - location of the inflection points on the curve.
 - number of inflection points on the curve.
 - area under the curve between certain bounds.
- Which of the following choices is the general solution to this differential equation:
 $\frac{dy}{dt} + 5y = 0; \quad y(0) = 1$?
 - e^{5t}
 - e^{-5t}
 - $e^{\sqrt{-5t}}$
 - $5e^{-5t}$
- If D is the differential operator, then the general solution to $(D+2)^2 y = 0$
 - $C_1 e^{-4x}$
 - $C_1 e^{-2x}$
 - $e^{-4x} (C_1 + C_2 x)$
 - $e^{-2x} (C_1 + C_2 x)$
- A particle traveled in a straight line in such a way that its distance S from a given point on that line after time t was $S = 20t^3 - t^4$. The rate of change of acceleration at time $t=2$ is:
 - 72
 - 144
 - 192
 - 208
- Which of the following is a unit vector perpendicular to the plane determined by the vectors $\mathbf{A}=2\mathbf{i} + 4\mathbf{j}$ and $\mathbf{B}=\mathbf{i} + \mathbf{j} - \mathbf{k}$?
 - $-2\mathbf{i} + \mathbf{j} - \mathbf{k}$
 - $\frac{1}{\sqrt{3}} (\mathbf{i} + 2\mathbf{j})$
 - $\frac{1}{\sqrt{6}} (-2\mathbf{i} + \mathbf{j} - \mathbf{k})$
 - $\frac{1}{\sqrt{6}} (-2\mathbf{i} - \mathbf{j} - \mathbf{k})$

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K Morrison



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