Fundamentals of Engineering Exam Sample Math Questions

Directions: Select the best answer.

- 1. The partial derivative $\frac{\partial y}{\partial x}$ of $y = x^2z + 3z^2x + 6(x+z)$ is:
 - a. $2xz + 3z^2 + 6$
 - b. $x^2z + 6zx + 6z$
 - c. 2x + 9
 - d. 2x + 6z + 6
- 2. If the functional form of a curve is known, differentiation can be used to determine all of the following EXCEPT the
 - a. concavity of the curve.
 - b. location of the inflection points on the curve.
 - c. number of inflection points on the curve.
 - d. area under the curve between certain bounds.
- 3. Which of the following choices is the general solution to this differential equation:

$$\frac{dy}{dt} + 5y = 0$$
; $y(0) = 12$

- a. e^{5t} b. e^{-5t} c. $e^{\sqrt{-5t}}$ d. $5e^{-5t}$
- 4. If D is the differential operator, then the general solution to $(D+2)^2 y = 0$
 - a. C.e. -41
 - b. C_1e^{-2x}
 - e. $e^{-4x}(C_x + C_x x)$
 - d. $e^{-2x}(C_1 + C_2x)$
- 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=2tion:

- b. 144 c. 192

- d. 208
- 6. Which of the following is a unit vector perpendicular to the plane determined by the vectors A=2i+4j and B=i+j-k?
 - a. -2i + i k
 - b. $\frac{1}{\sqrt{s}}(i+2j)$
 - c. $\frac{1}{\sqrt{6}} \left(-2\mathbf{i} + \mathbf{j} \mathbf{k} \right)$
 - d. $\frac{1}{\sqrt{6}} (-2\mathbf{i} \cdot \mathbf{j} \cdot \mathbf{k})$

Fundamentals Of Engineering Practice Questions

Christian Drosten

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