

## 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  $\mathbf{B}=\mathbf{i} + \mathbf{j} - \mathbf{k}$ ?
  - $-2\mathbf{i} + \mathbf{j} - \mathbf{k}$
  - $\frac{1}{\sqrt{3}} (\mathbf{i} + 2\mathbf{j})$
  - $\frac{1}{\sqrt{6}} (-2\mathbf{i} + \mathbf{j} - \mathbf{k})$
  - $\frac{1}{\sqrt{6}} (-2\mathbf{i} - \mathbf{j} - \mathbf{k})$

# Computer Engineering Test Questions

**Yan Bai**



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