

Mechanical Engineering - 2006

Full Paper

1. Match the items in columns I and II.

	Column I		Column II
P	Gauss-Seidel method	1	Interpolation
Q	Forward Newton-Gauss method	2	Non-linear differential equations
R	Runge-Kutta method	3	Numerical integration
S	Trapezoidal Rule	4	Linear algebraic equations

- 1) P-1, Q-4, R-3, S-2
- 2) P-1, Q-4, R-2, S-3
- 3) P-1, Q-3, R-2, S-4
- 4) P-4, Q-1, R-2, S-3

2. The solution of the differential equation

$(dy/dx) + 2xy = e^{-x^2}$ with $y(0) = 1$ is

- 1) $(1 + x) e^{-x^2}$
- 2) $(1 + x) e^{-x^2}$
- 3) $(1 - x) e^{-x^2}$
- 4) $(1 - x) e^{x^2}$

3. Let x denote a real number. Find out the INCORRECT statement.

- 1) $S = \{x : x > 3\}$ represents the set of all real numbers greater than 3
- 2) $S = \{x : x^2 < 0\}$ represents the empty set
- 3) $S = \{x : x \in A \text{ and } x \in B\}$ represents the union of set A and set B
- 4) $S = \{x : a < x < b\}$ represents the set of all real numbers between a and b , where a and b are real numbers

4. A box contains 20 defective items and 80 non-defective items. If two items are selected at random without replacement, what will be the probability that both items are defective?

- 1) 1/5
- 2) 1/25
- 3) 20/99
- 4) 19/495

5. For a circular shaft of diameter d subjected to torque T , the maximum value of the shear stress is

Mechanical Engineering Past Paper

Yicheng Fang



Mechanical Engineering Past Paper:

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web we utilize the equation that relate amount remaining initial mass and number of half lives $n = \frac{t}{t_{1/2}} \times \log_2 \frac{N_0}{N}$

125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore $n = \frac{t}{t_{1/2}} \times \log_2 \frac{N_0}{N}$

now using the half life equation in example 1 we have

web what is the half life of this radioisotope after 2 days 5 grams of the radioisotope 1 day b 2 days c 5 days d 4 days 3 the ratio of uranium 238 to lead 206 in a mineral is used to determine age b density c solubility d composition 4 a radioactive isotope has a half life of 10 years

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