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Question 1

Question Type: MultipleChoice

Determine and describe the extreme values of f(x,y) = -x2 - xy - 3y2

Options:

A- (0,1) and a saddle point

B- (0,0) and a minimum

C- (0,0) and a maximum

D- (0.5,-1) and a maximum

Answer:

C

Question 2

Question Type: MultipleChoice

For the following data set, calculate the mean and median.

10,8, 5, 7, 14, 5, 3, 9, 5, 8

Options:

A- The mean is 7.4 and the median is 7.5.

B- The mean is 7.4 and the median is 8.0.

C- The mean is 8.2 and the median is 7.5.

D- The mean is 8.2 and the median is 8.0.

Answer:

A

Question 3

Question Type: **MultipleChoice**

Determine the coefficient of x3in the binomial expansion of (2 + x)5.

Options:

A- 10

B- 40

C- 64

D- 80

Answer:

B

Question 4

Question Type: MultipleChoice

The particular solution of the second-order difference equation

yn+2 - 6yn+1 + 8yn = 0 n 2

subject to the initial conditions y0 = 3 and y1 = 2may be written in the form

yn = A(2n) + B(4n) n 0.

Determine the values of (A, B).

Options:

A- (-2, 5)

B- (-2, 3)

C- (-3, 2)

D- (5, -2)

Answer:

D

Question 5

Question Type: **MultipleChoice**

One of the two solutions to the equation is .

$$\frac{1}{|2 - 7x|} = 3$$

Determine the second solution.

$\frac{5}{21}$

Options:

A- Option A

$\frac{5}{7}$

B- Option B

$\frac{5}{7}$

C- Option C

$\frac{5}{7}$

D- Option D

$\frac{5}{7}$

Answer:

C

Question 6

Question Type: MultipleChoice

A discrete random variable can only take the values 2,3,4 or 5. The probabilities associated with some of the outcomes are: P(X=2) = 0.2, P(X=3) = 0.3, P(X=5) = 0.1.

For a randomly drawn value of X, calculate P(X>3).

Options:

A- 0.1

B- 0.4

C- 0.5

D- 0.8

Answer:

C

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