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Courses » Introduction to Machine Learning

Announcements Course Ask a Question Progress Mentor FAQ

Unit 1 - How to access the portal?

Course outline How to access the portal? How to access the homepage? How to access the course page How to access the MCQ, MSQ and Programming assignments? Ouiz: Assignment 0 Week 1

Ass	iar	nme	nt 0

Due date for this assignment: 2018-08-28, 23:59 IST.

1) In a box, there are 8 red, 7 blue and 6 green balls. One ball is picked up randomly. What is **1 point** the probability that it is neither red nor green?

- A. 1/3
- B. 3/4
- C. 8/21
- D. 7/19

Yes, the answer is correct.

Score: 1

Accepted Answers:

A. 1/3

2) Three unbiased coins are tossed. What is the probability of getting at most two heads?

1 point

- A. 3/4
- B. 1/4
- C. 3/8
- D. 7/8

Yes, the answer is correct.

Score: 1

Accepted Answers:

D. 7/8

3) In how many different ways can the letters of the word 'LEADING' be arranged in such a way **1 point** that the vowels always come together?

- A. 360
- B. 480
- C. 720
- D. None

Yes, the answer is correct.

Score: 1

Accepted Answers:

C. 720

4) A bag contains 4 white, 5 red and 6 blue balls.	. Three balls are drawn at random from the bag. 1 point
The probability that all of them are red, is:	

- A. 1/22
- B. 3/22
- C. 2/91
- D. 2/77

Yes, the answer is correct.

Score: 1

Accepted Answers:

C. 2/91

5) In a group of 6 boys and 4 girls, four children are to be selected. In how many different ways 1 point can they be selected such that at least one boy should be there?

- A. 159
- B. 194
- C. 205
- D. 209

Yes, the answer is correct.

Score: 1

Accepted Answers:

D. 209

6) For a skew symmetric odd ordered matrix A of integers, which of the following will hold true: 1 point

- \bigcirc A. det(A) = 9
- B. det(A) = 25
- \odot C. det(A) = 0
- \bigcirc D. det(A) = 7

Yes, the answer is correct.

Score: 1

Accepted Answers:

C. det(A) = 0

7) The function
$$f(x)=x^3-6x^2+9x+25$$
 has

1 point

- A. a maxima at x= 1 and a minima at x = 3
- B. a maxima at x = 3 and a minima at x = 1
- \bigcirc C. no maxima, but a minima at x = 1
- D. a maxima at x = 1, but no minima

Yes, the answer is correct.

Score: 1

Accepted Answers:

A. a maxima at x = 1 and a minima at x = 3

$$\frac{d}{dx}(e^{xy}) = ?$$

1 point

$$e^{xy}(y+x.\frac{dy}{dx})$$

$$e^{xy}(1+x.\frac{dy}{dx})$$

$$e^{xy}(1+x.\frac{dy}{dx})$$

$$e^{xy}(y+x)$$

O D.

Yes, the answer is correct.

Score: 1

Accepted Answers:

$$e^{xy}(y+x.\frac{dy}{dx})$$

Α.

$$^{9)}P=egin{bmatrix}10&3\\4&-1\end{bmatrix}$$
 and $Q=egin{bmatrix}2&-6\\0&8\end{bmatrix}$. What is 2P+3Q?

1 point

•

A.
$$\begin{bmatrix} 26 & -12 \\ 5 & 22 \end{bmatrix}$$

B.
$$\begin{bmatrix} 12 & -3 \\ 4 & 7 \end{bmatrix}$$

$$\mathsf{C.}\begin{bmatrix}25 & -12\\4 & 22\end{bmatrix}$$

D.
$$\begin{bmatrix} 11 & -12 \\ 4 & -22 \end{bmatrix}$$

Yes, the answer is correct.

Score: 1

Accepted Answers:

A.
$$\begin{bmatrix} 26 & -12 \\ 5 & 22 \end{bmatrix}$$

10)What is the derivative of f(x) = |x| at x = 0

1 point

O A. 1

O B. -1

O C. 0

D. Doesn't exist

Yes, the answer is correct.

Score: 1

Accepted Answers:

D. Doesn't exist

You may submit any number of times before the due date. The final submission will be considered for grading.

Check Answers

Your score is: 10/10

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Previous Page

End

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