Started on	Monday, 12 December 2022, 8:40 AM
State	Finished
Completed on	Monday, 12 December 2022, 9:33 AM
Time taken	53 mins
Grade	**21.00** out of 30.00 (**70%**)

Question 1

Correct

Mark 3.00 out of 3.00

9.   If $F(x, y) = \ln(x^2 y - xy^2)$, what is $F_x\ (3, 2)$?

a.   −1/2   b. ½   c. 4/3   d. ¾

- ○ a.   A
- ◉ b.   C   ✔
- ○ c.   D
- ○ d.   B

Your answer is correct.

The correct answer is:
C

Question **2**

Correct

Mark 3.00 out of 3.00

5.   In the equation, 2x + 3y + 4z = 12, which of the following is the yz trace?

a.   3y + 4z + 12   b. 2x + 3y = 12   c. 2x + 4z = 12   d. x + y + z = 12

○ a. B

◉ b. A   ✔

○ c. C

○ d. D

Your answer is correct.

The correct answer is:
A

Question **3**

Correct

Mark 3.00 out of 3.00

4.   What is the locus of the equation $x^2 = -4$?

a.   X axis   b. origin   c. y axis   d. none

○ a. A

○ b. B

◉ c. D   ✔

○ d. C

Your answer is correct.

The correct answer is:
D

Question **4**

Correct

Mark 3.00 out of 3.00

6.   Which of the following is the equation of the plane perpendicular to the line joining the points $(2, -1, 2)$ and $(3, 2, -1)$ and passing through $(4, -2, 1)$?

a. $3x + y -5z +3 = 0$ b. $x + 3y - 3z +5 = 0$ c. $3x + 5y - z + 0$ d. $5x - 3y + z = 0$

○ a. D

○ b. A

○ c. C

◉ d. B   ✔

Your answer is correct.

The correct answer is:

B

Question **5**

Correct

Mark 3.00 out of 3.00

10.   Two sides and the included angle of a triangle change from 6, 8, and 30° to 6.2, 8.1 and 29° respectively then what is the approximate change in area?

a.   17.4   b. 0.174   c. 1.74   d. 0.0174

◉ a. B   ✔

○ b. C

○ c. A

○ d. D

Your answer is correct.

The correct answer is:

B

Question 6

Incorrect

Mark 0.00 out of 3.00

3.   If a line makes an angle of 45º with OX and 60º with OZ, what angle does it make with OY?

a.   90º   b. 60º   c. 180º   d. 380º

○ a. A

○ b. B

○ c. C

◉ d. D   ✖

Your answer is incorrect.

The correct answer is:
B

Question 7

Incorrect

Mark 0.00 out of 3.00

Read and understand the statement/problem, solve then choose the best answer.

1.   How many coordinate planes divide the space?

a.   4   b. 6   c. 8   d. 10

○ a. B

○ b. C

◉ c. A   ✖

○ d. D

Your answer is incorrect.

The correct answer is:
C

Question 8

Correct

Mark 3.00 out of 3.00

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8.   If $z = x^3 y + 4xy^2$, is $z_{xz} = z_{yx}$?

a.   Yes   b. No   c. sometimes   d. maybe

○ a. D

◉ b. A   ✔

○ c. C

○ d. B

Your answer is correct.

The correct answer is:
A

Question 9

Correct

Mark 3.00 out of 3.00

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2.   How far is $A(4, -3, 2)$ to $B(-2, 3, -5)$?

a.   11   b. 13/2   c. 3/2   d. 13

○ a. B

○ b. C

◉ c. A   ✔

○ d. D

Your answer is correct.

The correct answer is:
A

Question **10**

Incorrect

Mark 0.00 out of 3.00

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7.   Where is the center and radius of the sphere with equation $x^2 + y^2 + z^2 = 6x + 8z$?

a.   (0, 0 ,0), 5   b. (3, 0, 0), 4   c. (3, 0, 4), 5   d. (3, 4, 0), 5

- ⊙ a.   A   ✖
- ○ b.   D
- ○ c.   C
- ○ d.   B

Your answer is incorrect.

The correct answer is:

C

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