Complete

Mark 5.00 out of 5.00

$$F = sinx + cosy + xy^2$$
 and $x = sin t$, $y = cos t$. Find dF/dt at $t = \pi$

Select one:

- a. -2
- O b. 2
- C. 1
- d. 0

The correct answer is: -2

Complete

Mark 4.00 out of 4.00

Find
$$\partial z/\partial y$$
 if $z = 3x^4y - 7xy^3$

Select one:

- 0 a. $12x^3 21y^2$
- 0 b. $12x^3y 7y^3$
- 0 C. $3x^4 21xy^2$
- o d. $3y-7y^3$

The correct answer is:

$$3x^4 - 21xy^2$$

Complete

Mark 6.00 out of 6.00

The Jacobian $\partial(u,v)/(\partial(x,y))$ for the functions $u=e^x\sin y$, $v=x+\log(\sin y)$ is

Select one:

- a. 0
- b. sinx siny - xy cosx cosy
- o c. e^x/x
- O d. 1

The correct answer is: 0

Complete

Mark 5.00 out of 5.00 For the function $F = x^3 + 3xy^2 - 3x^2 - 3y^2 + 4$, the point (1, -1) is a

Select one:

- a. saddle point
- b. minimum point
- c. none of the given options
- d. maximum point

The correct answer is: saddle point

Complete

Mark 5.00 out of 5.00

Mark Your attendance.

Select one:

- a. Present
- b. Absent

The correct answers are: Present, Absent