Mat120Sec4 MCQ

Answer all the 10 Questions

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* Required

Tangent to the curve y = (5/x) –(x/5) at the point (5,0) form a triangle of area 5 square units with positive sides of x and y axes, what is the y–intercept of tangent line?

○ -2

○ 2

○ 5

○ -5

What is the value of the limit of (5/x)sin(3x) as x tends to zero ? *

○ 15 (fifteen)

○ ∞ (infinity)

○ 5 (five)

○ 0/0 (zero/zero)

If f(x) = (x^2-9)/(x-3) then what is the value of f(3) ? *

○ does not exist

○ 6

○ 0/0

○ -6

What is the derivative of f(x) = | x-2 | at x = 2 ?

○ 0

○ -1

○ 1

○ Does not exist

What is the domain of the function f(x) = 2+sqrt(3-x) ?

○ (-∞, 3]

○ (3,∞)

○ {2,3}

○ (-∞, 3)

The function f(x) = 4x(x - 2) has a horizontal tangent at

○ x = 2

○ x = -8

○ x = 1

○ x = 0

The stationary point of the function f(x) = 4-x^2 is

○ none of these

○ a minimum

○ a inflection point

○ a maximum

What is the value of x at extreme point of the function f(x) = x^2 − 4x + 3.

○ -1

○ 3

○ 4

○ 2

If y = 3+x^2 What is the average rate of change of y with respect to x over the interval [3, 5].

○ 4

○ 8

○ 5

○ 3

What is the local extreme value of the function f(x) = x^2 − 4x + 3 ? *

○ 2

○ -1

○ 3

○ 0

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