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MTH101 Quiz 1 2021

1. If f(x) x^3 +1, then which of the following is not True about it.

   The Slope of tangent line at x =1 is 3

2. If f(x) = ax+bx+c, then its derivatives with respective to x is…….

   a+b

3. The Equation of tangent line at Point (x0, y0) is y+y0=m tan(x+x0) **False**

4. Derivative of Graph of Straight line Bisecting the First and Third Quadrants is…. **+1**

5. What is Derivative of $7x^3$ **$21x^2$**

6. Derivative of Straight line of Parallel to y-axis is……. **Zero**

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7. When the Slope of the Tangent line Approaches to ± infinity, then…. Occurs **Circle**

8. To Find the Slope of Tangent Line at a Particular point along a Curve, you Have to Calculate the ……

Instantaneous Velocity

9. Average Velocity is Obtained by Dividing the……. **Total Distance by Time Elapsed**

10. If f(x) = cos(2x) then its derivates By Chain Rules is …… **- Sin(2x).2**

11. What is Derivatives of 101? **0**

12. The Derivative of y=cosecx at x=0 is……. **Infinity**

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13. If $f(x) = x^5$ and $g(x) = x^2$, Then the Derivative of F(x)/g(x) is…… **$3x^2$**

14. The Derivative of sinx.cosx at x=0 is……. **1**

15. If f(x) = 2x+2 and $g(x) = x^2 + 3x$, the Derivative of f(x) + g(x) is……. **5 + 2x**

16. The Instantaneous rate of Change of y^2+4 with Respect to x = 2 is …… **4**

17. What is Derivative of $2x^2 \sin(x^5)$? **None of these**

18. What is Derivative of Sin (20x)? **20cos(20x)**

19. For the Curve f(t) = -2t+3, the Instantaneous Rate of Change of 'f(t)' at t = 1 is **-2**

20. Let f(x) = Cos(x)/6, the Derivative of f(x) is……. **–Sinx/6**

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21. The Sum of Two Differentiable Functions is Always Differentiable is …. **True**

22. Derivative of Cos 4x By Using Chain Rule is…… **-4Sin 4x**

23. What is The Derivative of Sin(x) at x = Sin(x) at x = π/2?

1

24. If Y=x+1 then Average rate of Change of 'y' w.r.t 'x' Over the Internal [1,5,2,5] will be…… **1**

25. If the Function is Differential at a Point, then it is also _____ at the Point. **Continuous**

26. What is the Derivative 3cot 2(x)……? **$-6\text{cosec}x^2(2x)$**

27. If y = 5x + bx – c, then Derivative w.r.t x is…… **5 + b**

28. Let f(x) = cos(x)/6 the Derivative of f(x) is…. **–Sinx/6**

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29. The Function of f(x) = f(x) is Differential at x=0…….. **False**

30. Let Y = x^2+1 Then the Instantaneous rate of Change y with respect to x at point -2 is **3**

31. A Function f(x) is Differentiable on (a,b) if is Differentiable at……..point in (a,b)…… **Each**

32. What is the Derivative of Sin(x) + Cos(x)? **Cos(x) + Sin(x)**

33. (f,g)' = f,.g- f.g **False**

34. Velocity is the rate of change of position w.r.t…… **Time**

35. What is the Derivative of 39x 14/13 **42x 1/33**

36. Point slope from the tangent line is y-3=6(x-3) **y=6x-15**

37. What is the Derivative of $2x+3x^2$…... **4x+3**

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38. If f(x) = cot(2x), then the Derivative of f(x) is……. **$-2\csc^2(2x)$**

39. If f(x) = sec(x) and g(x) = tan(2x), then the Derivative of f(x) – g(x) is…… **$\sec(x)\tan(x) - 2\sec^2(2x)$**

40. If f(x) = $\text{Sin}^4(x^2)$, then the Derivative of f(x) is…….. **None of these**

41. A Differentiable Functions is always Continuous **True**

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