Calculus Worksheet #3 Unit 6 page 1 _____

Find dy/dx for each of the following.

1. $y = \sin(2x + 5)$

2. $y = \sin(1 - x^2)$

3. $y = \cos(3x - 1)$

4. $y = \cos(x^2 + 4)$

5. $y = \tan(1 - 3x)$

6. $y = \tan(x^3 + 1)$

7. $y = \sec(5x)$

8. $y = \sec(x^5)$

9. $y = \cot(7x + 9)$

10. $y = \cot(3 - x^3)$

11. $y = \csc(2x - 5)$

12. $y = \csc(x^2 - 5)$

13. $y = \sin^5(x)$

14. $y = \sin^3(2x + 1)$

15. $y = \cos^4(x + 3)$

16. $y = \cos^6(3x^2)$

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Find dy/dx for each of the following.

17. $y = \tan^3(1 - 5x)$

18. $y = \tan^2(x^3)$

19. $y = \sec^6(x - 5)$

20. $y = \sec^3(9 - x^2)$

21. $y = \cot^3(8x)$

22. $y = \cot^7(5x - 3)$

23. $y = \csc^2(x^2 + 4)$

24. $y = \csc^6(7 - 2x)$

25. $y = \sin\sqrt{2x}$

26. $y = \sqrt{\sin(2x)}$

27. $y = \tan\sqrt{2x - 1}$

28. $y = \sqrt{\tan(2x - 1)}$

29. $y = \sec\sqrt{x^2 - 1}$

30. $y = \sqrt{\csc(x^3)}$