Calculus   Worksheet #2   Unit 6   page 1   _____

Find dy/dx for each of the following.

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

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

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

4. $y = \tan^3(x)$

5. $y = \tan^5(2x - 3)$

6. $y = \sqrt{\tan(x)}$

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

8. $y = \cot(x^2 + 1)$

9. $y = \cot(3 - 2x)$

10. $y = \cot^3(4x + 3)$

11. $y = \sec(2x)$

12. $y = \sec(3x^2 + 1)$

Find dy/dx for each of the following.

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

14. $y = \sec^4(x)$

15. $y = \sec^7(x^2 + 9)$

16. $y = \sqrt{\sec(3x + 1)}$

17. $y = \csc(x + 3)$

18. $y = \csc(x^5)$

19. $y = \csc^5(2x - 3)$

20. $y = \sqrt{\csc(1 - 4x)}$