HOMEWORK DAY 9 – *Chain Rule §2.5*

1. §2.5: 7.

2. §2.5: 9.

3. §2.5: 10.

4. §2.5: 14.

5. §2.5: 15.

6. §2.5: 16.

7. §2.5: 18.

8. §2.5: 24.

9. Let $f(t) = (3t-1)^4(2t+1)^{-3}$.

(a) Find $f'(t)$. Simplify your answer

(b) Find the points (a, b) on the curve $y = f(t)$ at which the tangent line is horizontal.

10. Let $f(x) = \dfrac{1}{4 + x^2}$

(a) Find $f'(x)$ (simplify)

(b) Find $f''(x)$ (simplify)

(c) Find the points (a, b) on the curve $y = f(x)$ at which $f''(x) = 0$.

11. §2.5: 66

12. §2.5: 68

13. §2.5: 72

14. §2.5: 78

15. §2.5: 81