The chain rule

Name _____ Date _____

1. $f(x) = \sqrt{6x + 4}$ $f'(x) =$ _____

2. $f(x) = \sqrt{6x + 2}$ $f'(x) =$ _____

3. $f(x) = (-3x^2 - 3)^6$ $f'(x) =$ _____

4. $f(x) = \sqrt{4x - 4}$ $f'(x) =$ _____

5. $f(x) = (-4x^2 - 2)^5$ $f'(x) =$ _____

6. $f(x) = \sqrt{4x + 1}$ $f'(x) =$ _____

7. $f(x) = \sqrt{4x - 1}$ $f'(x) =$ _____

The chain rule

8. $f(x) = (-2x^2 - 7)^6$ $f'(x) =$ _____

9. $f(x) = (-x + 4)^2$ $f'(x) =$ _____

10. $f(x) = (x - 3)^3$ $f'(x) =$ _____

11. $f(x) = \sqrt{4x}$ $f'(x) =$ _____

12. $f(x) = \sqrt{2x + 5}$ $f'(x) =$ _____

13. $f(x) = (5x - 6)^4$ $f'(x) =$ _____

14. $f(x) = \sqrt{8x + 9}$ $f'(x) =$ _____

15. $f(x) = \sqrt{2x - 2}$ $f'(x) =$ _____