

Pre-AP Algebra II
Assignment #27
[Due Wednesday 1/15/20]

Name: _____
Period: _____

Directions: Find the inverse of the following functions.
[Notes #84]

1. $f(x) = \frac{x}{3} + \frac{2}{3}$

2. $f(x) = -2(x-2)^3$

3. $f(x) = -\sqrt{2x+1} - 3$

4. $f(x) = -\sqrt{\frac{3}{4}x + \frac{2}{3}} - 3$

5. $f(x) = \sqrt{(3x-2)^3} + 1$

6. $f(x) = \frac{3}{4} \left(\frac{2}{3}(x-4) \right)^2 - 5$

7. $f(x) = \frac{5x-3}{7} + 2$

8. $f(x) = \frac{7\delta x}{3} + \lambda$

9. $f(x) = \delta^2(2x + \varphi)^2$

10. $f(x) = \delta^2 \sqrt{(2x^2 + \varphi)} - \frac{\pi}{\theta}$

Directions: Find the composition of the following functions if $f(x) = 3x - 5$, $g(x) = x^2 + 3$, and
 $h(x) = \sqrt{2x-1}$.

[Notes #85]

11. $(g \circ g)(3)$

12. $(f \circ g)(-4)$

13. $(g \circ f)(3x)$

14. $(h \circ f)(-5)$

15. $(g \circ h)(2x^2)$