

Math 121

Section 1.4

Functions

I) Given $f(x) = 2x^2 + 4$, $g(x) = 5x - 6$, and $h(x) = x^3 - x$, answer questions 1-10

- 1) Find $f(2)$
- 2) Find $f(-3)$
- 3) Find $f(x+2)$
- 4) Find $g(f(3))$
- 5) Find $f(g(4))$
- 6) Find $f(g(x))$

II) Find the inverse function, and then graph $f(x)$ and $f^{-1}(x)$

- 1) $f(x) = 3x - 4$
- 2) $f(x) = x^3$
- 3) $f(x) = x^3 - 5$
- 4) $f(x) = \frac{x+2}{5}$