

**015 – Short Answer Homework – Functions: SHOW ALL WORK**

1	For $f(x) = 6x - 2x(5 - x)$ find $f(-2)$ .
2	For $f(x) = \frac{1}{x+3}$ , find the difference quotient $\frac{f(5+h)-f(5)}{h}$ , and simplify.
3	For $f(x) = 5x - 2$ and $g(x) = 2 - x^2$ find $g(f(7))$ .