ANSWERS

A) _____

B) _____

C) _____

A) Determine the domain of the function $f(x) = \dfrac{1}{\sqrt{4x - 3x^2}}$.

B) Given: $f(0) = 0$ and $f(x) = x - f(x - 1)$ for $x > 0$
    Find $f(2007)$.

C) Find the largest 3-digit integer (in base 10) that can be formed from the distinct digits
    A, m and b, given:

   $f(x) = Ax^2$ and $g(x) = mx + b$, where $A \neq 0$ and $m \neq 0$

   $f(g(x)) \equiv g(f(x))$ (i.e. an <u>identity</u> valid for all real values of x)