| ***** NO CALCULATORS IN THIS ROUND ***** |
| :---: |

**ANSWERS**

A) _____

B) _____

C) $x =$ _____

A) Compute $\log_9\left(1+\dfrac{\sqrt{6}}{3}\right)+\log_9\left(1-\dfrac{\sqrt{6}}{3}\right)$

B) Compute all real values of $x$ for which $\log_4 x^3 - 2\log_{16} x + \log_{64} x^6 = 3$
   Any radicals in your answer must have the smallest possible index.

C) Solve for $x$ over the reals. $\qquad \dfrac{2^x - 2^{-x}}{2} = -1.875$