Dr. Z.'s Intro to Complex Variables Homework assignment 5

1. Find the values of the given expressions

a) $e^{-i\frac{\pi}{3}}$ (b) $e^{-i\frac{7\pi}{4}}$ (c) $log(1+i\sqrt{3})$ (d) $Log(4-4i)$.

2. Verify that $\cos(z+w) = \cos z\ \cos w\ -\ \sin z \sin w$