MTH 32. QUIZ 2. NAME:_____

[4] **1.** Find the exact value of

   a) $\csc^{-1}\sqrt{2}$

   b) $\cos^{-1}(\sqrt{3}/2)$

[4] **2.** Find the derivative of the function $f(x) = x\sin^{-1}x + \sqrt{1-x^2}$.

[4] **3.** Simplify the expression $\sin(\tan^{-1}x)$.