QUIZ 3 - MATH 131   Thursday, January 27
YOUR NAME:_____   George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5
points. It is necessary to show **all** your work. Correct answers without explanations are
worth 0 points. GOOD LUCK!!

1. Find the exact value of the expression $\cos \frac{\pi}{4} \tan \frac{\pi}{6} + 2 \tan \frac{\pi}{3}$. Please, simplify your answer as
   much as possible.

2. The angle of elevation to the top of the Egyptian pyramid of Cheops is $36.4°$, measured from
   a point 350 feet from the base of the pyramid. The angle of elevation from the base of a face
   of a pyramid is $51.9°$. Find the height of the Cheops pyramid.

3. Given that $\tan\theta = -\frac{3}{2}$ and that $\cos\theta > 0$, find $\sin\theta$ and $\sec\theta$.