1) The side opposite angle $A$ has length 11, and the adjacent side has length 11. Find the length of the hypotenuse, and find the value of the 6 trig functions of the angle $A$.

2) Suppose that $\sin A = \frac{5}{7}$. Sketch a reference right triangle with this angle $A$, calculate the unknown side, then find the value of the remaining 5 trig functions of $A$. 
3) Suppose that \( \tan A = \frac{8}{7} \). Sketch a reference right triangle with this angle \( A \), calculate the unknown side, then find the value of the remaining 5 trig functions of \( A \).

5) Suppose that \( \sec A = 2.1565 \). Sketch a reference right triangle with this angle \( A \), calculate the unknown side, then find the value of the remaining 5 trig functions of \( A \). Approximate the values to 4 or 5 significant digits.