Name _____  Sr.#

1) Find all points on the graph of the function $f(x) = 2sinx + sin^2x$
   at which the tangent line is horizontal.

2) Find the limit $\displaystyle\lim_{x \to \pi/4} \frac{1 - tanx}{sinx - cosx}$

3) Find the equation of the normal line to the curve $y = \sqrt{2x + 2}$ that is parallel to the line $2x + y = 1$