Exercises for Friday, Nov. 25

Mr. Neeman. 10B, November 24, 2011.

#1. Find all the solutions to the equation $2\cos^2\alpha - \sin\alpha - 1 = 0$ in the interval $[0, 2\pi]$.

#2. Find all the solutions to the equation $\cos\alpha + 2\sin\alpha = 0$ in $[-\pi, \pi]$ (round your answers to the nearest degree).

#3. Find all the solutions to the equation $2\cos^2\alpha + 5\sin^2\alpha = 4$ in the interval $[0, 2\pi]$ (round your answers to the nearest degree).

#4. Find all the solutions to the equation $\sin^2\alpha - \cos\alpha + 1 = 0$ in the interval $[-\pi, \pi]$.

#5. Find all the solutions to the equation $3\sin^2\alpha = 1 + 2\cos^2\alpha$ in the interval $[0, 2\pi]$ (round your answers to the nearest degree).