PROBLEM:

Simplify the following and give the answer in polar form. Make a plot of the vectors involved in the complex addition. (a) $z_a = e^{-j(3\pi/4)} + \sqrt{2} e^{j(3\pi/4)}$

(b)
$$z_b = \sqrt{3}e^{j(5\pi/3)} + \sqrt{3}e^{j\pi/3} - 1$$

(c) In addition, write the MATLAB statements that will perform the addition and also display the magnitude and phase of the result. Consult help on the SP-First functions: zprint, zvect, etc. Use these to check your hand calculations in parts (a) and (b).