Simplify the following complex-valued expressions. In each case reduce the answers to a simple numerical form.

Let $\quad Y=\sqrt{3}-j \quad$ and $\quad Z=e^{j \pi / 3}$.
(a) If $A=Y+Z$, what is its numerical value expressed in rectangular form? Plot the vectors $Y, Z$, and $A$ in the complex plane.
$A=$ $\qquad$

(b) If $B=Z Y^{*}$, what are the numerical values of the magnitude and phase associated with the polar form representation?
$|B|=$
$\angle B=$
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(c) If $C=(j Z)^{33}$, what is its numerical value expressed in rectangular form?
$C=$

