PROBLEM:

Simplify the following complex-valued expressions. Give your answer in polar form Reduce the answers to a simple numerical form.

(b) For z = -2 - i3, evaluate z^4 .

(c) For z = -2 - i3, evaluate $|z|^2$.

(a) For z = -2 - i3, evaluate 1/z.

(d) For z = -2 - i3, evaluate z/|z|.