Math Problem 1

For the complex number \( z = 2 + 3i \) calculate:

(a) \( z^* \)
(b) \( z^2 \)
(c) \( |z|^2 \)
(d) \( |z^2| \)
(e) \( 1/z \)

All results must be in the form \( a + ib \).