PROBLEM:

complex numbers are $z_1 = -4 + i2$ and $z_2 = -1 - i$.

(d)
$$z_2^2$$

(e)
$$z_1^{-1} = 1/z_1$$

(f) $z_1 z_1^*$

(h)
$$z_1/z_2$$

(i) z_1z_2

(g) $z_1 + z_2^*$

(b) jz_2 (c) z_2/z_1

Note: z^* means the "conjugate" of z.

(a) Conjugate: z_1^*

Evaluate the following and give the answer in both rectangular and polar form. In all cases, assume that the