1. Do problems 8, 9 on page 5 and problem 5 on page 7.

2. Solve the equation \( z^2 + 2z + 2 = 0 \) by writing
\[
(x, y) (x, y) + 2(x, y) + (2, 0) = (0, 0)
\]
and then solving a pair of simultaneous equations in \( x \) and \( y \).

3. Reduce the quantity to a real number
\[
\frac{4i}{(1+i)(2+i)(3+i)}
\]

4. Locate the numbers \( z_1 + z_2 \) and \( z_1 - z_2 \) vectorially when
   (a) \( z_1 = (-2, 1) \), \( z_2 = (1, 1) \)
   (b) \( z_1 = 3i \), \( z_2 = 3/2 - 2i \)

5. Sketch the set of points determined by the given conditions.
\[
|z - 2 + i| \leq 2
\]