Name: _____

SHOW ALL YOUR WORK FOR EACH PROBLEM TO GET FULL CREDIT.
PLEASE BE NEAT.

Direction: Read through the section 7.5 in your book and answer the following questions.

1. Find on the internet where people use complex numbers. One example is enough.

2. A complex number is in the form of $z = a + ib$. So, why a real number is also a complex number?

3. Plot each complex number in the complex plane and then find the absolute value:
   a. $z = 3$
   b. $z = -2i$
   c. $z = -1 + 2i$
   d. $z = 3 - i$