Honors Algebra II Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LT 8-2: Complex Numbers Day 3 Period\_\_\_\_

**For each of the following functions: a) find the discriminant, b) describe the number and type of zeros, and c) find the zeros.**

1) 2)

3) 4)

**Find the standard form of a polynomial function with the given zeros:**

5)–7 and 6 6) and

7) 8)

9) 10)

11) If f(x) = x2 − 8x + 12, calculate the values below.

a. *f*(−4) b. *f*(*i*) c. *f*(−2 + *i*)