In problems 1 through 4, write out the polynomial that has the listed factors:

Example: (x), (x-1) ANS: x2-x

1. (x-2), (x+3)

2. x, (x-2), (x-1)

3. (x-2i), (x+2i)

4. x, (x-1), (x+1), (x-2)

In problems 5 through 8, write the polynominal having the listed roots:

5. i

6. 2, 1, -1

7. 1, 3, 2, -1

8. -2, +3, i

In problems 9 through 11, use synthetic substitution to find f(-3) and f(4).



In problems 12 through 15, you are given a polynomial and one of its factors. Find the remaining factors of the polynomial. Some factors may not be binomials.

