Precalculus

Name_____

HW 2B.4 Zeros of Polynomial Functions

Write a polynomial function of least degree with integral coefficients that has the given zeros.

1) $3 - 2i$, $2i$, $-2i$

2) -5, $2i$

3) 0, -5, 5

4) $2i$, $2 + i$

Find ALL the zeros of the polynomial function.

5) $f(x) = x^3 + 6x^2 + 11x + 12$

6) $f(x) = x^3 - 7x^2 - x + 87$

7) $f(x) = x^3 + x^2 + 9x + 9$

8) $f(x) = 2x^3 + 3x^2 + 50x + 75$