# Honors Pre-Calc 10-26-07

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**2.** $x^3 + 2x^2 + 3x + 6$; zeros: $-2, \pm\sqrt{3}i$; $x$-intercept: $x = -2$

**6.** $x^2 - 2x + 5$

**10.** $x^4 - 3x^3 + 2x^2 + 2x - 4$

14. $x^4 - 6x^2 - 8x - 3$

18. (c)

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1. State how many complex and real zeros the function has

$$f\left(x\right)=x^4-2x^2+3x-4$$

2. Find all of the zeros and write a linear factorization of the function.

$$f(x) = x^3 - 10x^2 + 44x - 69$$

3. Find all of the zeros and write a linear factorization of the function, where 1+3i is a zero.

$$f(x) = x^4 - 2x^3 + 5x^2 + 10x - 50$$