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

LT 8-1: Characteristics of Polynomials Day 3 Period\_\_\_\_

**Write the following polynomials in standard form:**

1) 2)

**Write a polynomial function in standard form with the given zeros.**

3) 4)

5) 6)

7) Write a polynomial equation for a graph that passes through the point (−1, 60) and has three x-intercepts: (−4, 0), (1, 0), and (3, 0).

8) Write a polynomial equation for a graph that has three ‑intercepts: and and it passes through the point .

9) Write a polynomial equation for a graph that has ‑intercepts at , a bounce point at and passes through the point .

10) A rectangular box is units long, units wide, and units high. Express its volume as a polynomial in standard form.