

**ALGEBRA 2**  
**PROBLEM SET 17**

DUE DATE: NOVEMBER 14, 2023

**Question 1.** Find the degree and the leading coefficient in each of the following:

(a)  $-7x^3 + 8x^2 - x$

(b)  $5 - 17x^6 + 9x^{10}$

(c)  $4x + 8 - 7x^4$

(d)  $3x^3 - 5x^2 + 10 + x^7$

**Question 2.** Determine the end behaviour for each of the polynomials above (e.g. “*LEFT up*, *RIGHT down*” or “*RIGHT and LEFT down*”, etc.)