ACMAT100 Fall 2023
Professor Manguba-Glover
Classwork 12   Name: _____

Complete as many of the following problems as you can with your table. If your entire table finishes early, you may leave early or work on homework.

(1) Factor out the greatest common factor of the following polynomials:

(a) $7x + 14$

(b) $-24x^2 + 18x$

(c) $9x^4 - 3x^3 + 11x^2$

(d) $3x^2y + 6x^2y^2 + 3xy$

(2) Factor the following polynomials by grouping.

(a) $x(x + 9) + 1(x + 9)$

(b) $x^3 - 3x^2 + 4x - 12$

(c) $x^2 + 4x - 5x - 20$

(d) $-2x^3 + 10x^2 + 4x - 20$

(3) Factor the following polynomials.

(a) $x^2 - 2x - 15$

(b) $x^2 + 11x + 24$

(c) $2x^2 + 14x + 20$

(d) $x^3 - 6x^2 - 7x$