

Name: \_\_\_\_\_ Section: \_\_\_\_\_

**Problem 1.**

Part A Factor  $x^3 - 3x^2 - 4x + 12$  completely. (2 points)

Part B Graph  $f(x) = x^3 - 3x^2 - 4x + 12$ . (4 points)

**Problem 2.** Compute  $(x^3 - 2) \div (x - 1)$ . (4 points)