Name: _____ Date: _____

Factor Theorem

Q1. Show that (x + 1) and (x − 1) is a factor of $2x^3 + x^2 − 2x - 1$

Q2. Use factor theorem to find whether polynomial g(x) = x -2 is a factor of polynomial f(x) = $x^4 - 2x^2 +6x +3$ or not.

Q3. Find the value of 'a' such that x + 3 is a factor of $x^5 + 3x^4 − x^3 − 3x^2 + 5x + 15$.