***Using the Rational Root Theorem in Chapter 6***

For the Rational Root Theorem:

(1) List all the possible roots

(2) If there are too many possible roots to test you can use a graphing calculator or the answer sheet to help narrow down the list (make sure remainder is zero when doing synthetic division)

(3) Start factoring down your polynomial using synthetic division in order to find other roots (use quadratic equation to find irrational or complex roots)

(4) For your final answer write the polynomial *P(x)* in factored form and list all the roots of *P(x)* = 0 (make sure you answer any other questions about multiplicity if asked).