



## Senior Questions

1. (a) Solve  $p_0; p_1$  and show it equals zero.  
(b) Let  $p_2(x) = a_2x^2 + a_1x + a_0$ , and solve the equations  $p_2; p_0 = 0$  and  $p_2; p_1 = 0$  simultaneously.  
(c) Add up  $p_0 + p_1 + p_2$  and show the coefficients of the  $x^2$ ,  $x$  and constant term can be any number.