MATHEMATICS ENRICHMENT CLUB. Solution Sheet 7, June 9, 2015¹

1. If we x x

Now the integral solutions to f(x) = 2016 are the integral solutions to g(x) = 1, but there is no integral solution to g(x) = 1, because in the expression $g(x) = c(x \ a_1)(x \ a_2)(x \ a_3)(x \ a_4)(x \ a_5)h(x)$, each $(x \ a_i)$, i = 1

of P(x) by

$$a_{99} = \begin{array}{c} x_{00} \\ r_i \\ a_{98} = \begin{array}{c} r_i \\ r_i \\ r_j \\ a_{97} \end{array} \\ a_{97} = \begin{array}{c} i_{$$

Hence 14n + 11 is divisible by 5 and 3 alternately, and can never be prime.