Term Test A version 1

(1) [5 points]

(2) [5 points]

(3) [5 points] Determine how many solutions the following system of equations has. Your answer should be none, one, or infinitely many. Show your work.

(4) [5 points] The following points lie on a parabola $y = ax^2 + bx + c$: $P = (3, 28), Q = (-1, 12), R = (2, 15)$. Determine the coefficients of the parabola.