## Term Test Ab version 1

- (1) [5 points] Convert the following complex number to polar form:  $\frac{-2+2i}{3-3i}$ .
- (2) [5 points] HELP! Determine how many solutions the following system of equations has. Your answer should be none, one, or infinitely many. Show your work.

(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.