CIS 3362 Homework #5b
Due: 11/5/2014 at the beginning of class

1) Using the technique shown in class dealing with the sum and product of the roots, find a quadratic function which has roots that are double the roots of the quadratic function $f(x) = x^2 – 4x – 7$.

2) Using the technique shown in class dealing with the sum and product of the roots, find a quadratic function which has roots that are each two more than the roots of the quadratic function $f(x) = x^2 – 4x – 7$.

3) Given the elliptic curve $E_{23}(1, 1)$, and the points P = (11, 3), Q = (13, 16), determine P + Q.

4) Given the elliptic curve $E_{23}(1, 1)$, and the point P = (3, 13), determine 2P.

5) Given the elliptic curve $E_{29}(10, 4)$, and the points P = (19, 21), Q = (8, 4), determine P + Q.

6) Given the elliptic curve $E_{29}(10, 4)$, and the point P = (26, 11), determine 2P.