**Lucan Community College**

**3rd Year Higher Level Mathematics Revision Sheet 1 – Mr Duffy**

**Quadratic Equations**

1. Solve for



2. Solve for



3. Solve for



4. Solve correct to two decimal places



5. Express the following in the form and hence, solve the equation



.



6. Solve the equation



Hence, find the four values of *t* for which



7. A football club runs a raffle each week with a prize fund of €900. In the first week the prize was shared equally among people. In the second week the prize fund was shared equally among people and each person received €15 more than the winners on the first week.



Write an equation and solve it to find the value of .



8. The equation has answers Find one set of values of *p, q* and *r*.



9. If is one root of the equation find:



1. The value of *k* (ii) the other root.