# Disguised Quadratics

### Section A: Solve the following

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. ****

### Section B: How many solutions?

1. Show that the equation  has only one solution.
2. Show that the equation  has no solutions.
3. How many solutions does the equation  have?

### Section C: Factorise these expressions / numbers



1. ****

### Section D: Diophantine Problems In each case find the possible values of x and y



# Quadratics - Homework

By first rearranging them into the form “”, solve the following quadratic equations.

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. \*
9. \*\*

**Answers:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5, 8/5 |  | 5/2, -1 | 1/4, -2 | 3, -7/3 | 3, 7/2 |
| 3,-2 | 2/3, -2 | -2, 8/5 | 4,1 | 4, -6 | 6, 3/2 |

# The Zero Trick – Homework Markscheme

Correct layout, eg. equals signs in line [1]

Equations in factorised form e.g. in all questions [1]

Are the answers correct (check numbers below)? [1]

Have they ticked their answers to show they are correct? [1]

Two bonus questions correct [1]