**Score: *out of 25***

**Homework: Quadratic Equations**

**Name:**

**Literacy**

*The latin word for ‘****square’*** *is ‘****quadratus’****. Quadratic equations are named as such because the largest power in them is a* ***square****.*

**Research**

Write an example of an equation that could be solved using the **difference of two squares**, and give the two solutions.

**Stretch:**

1. Use any method to solve [4 marks]
2. Use your preferred method to solve [3 marks]

**Skills Check**

1. Factorise and solve [3 marks]
   1. = 0
2. Factorise and solve [3 marks]
3. Factorise and solve [3 marks]
4. Factorise and solve [3 marks]
5. Use the quadratic formula to solve (2d.p.) [6 marks]

**Memory**

The quadratic formula is

You need to know this for your exam- could you create a flash card to help remember it?

**Score: *out of 25***

**Homework: Quadratic Equations**

**ANSWERS**

**Literacy**

*The latin word for ‘****square’*** *is ‘****quadratus’****. Quadratic equations are named as such because the largest power in them is a* ***square****.*

**Research**

Write an example of an equation that could be solved using the **difference of two squares**, and give the two solutions.

Any equation in the form

**Stretch:**

1. Use any method to solve [5 marks]
   * 1. x = 3 , -3
     2. x = 8, -8
     3. x = 1, -1
     4. x = -2/3 , 2/3
2. Use your preferred method to solve [3 marks]
   * 1. x = -1.5, -1
     2. x =-1.5 , -1
     3. x = 0.5, 3

**Skills Check**

1. Factorise and solve [3 marks]
   1. = 0 x= -1, -3
   2. x= -4, -5
   3. x = -9, -8
2. Factorise and solve [3 marks]
   1. x = 3, 12
   2. x = 5 , 20
   3. x = 3 , 8
3. Factorise and solve [3 marks]
   1. x = -3, 4
   2. x = -9, 7
   3. x = -20, 5
4. Factorise and solve [3 marks]
   1. x = -4 , 9
   2. x = -8, 2
   3. x = -5, 3
5. Use the quadratic formula to solve (2d.p.) [6 marks]
   1. x = -8.74 , 2.74
   2. x = -5.85, 0.85
   3. x = -0.79 , 3.79
   4. x = -3.55 , 1.22
   5. x = -2.12 , 0.12
   6. x = -4.36, 1.53

**Memory**

The quadratic formula is

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