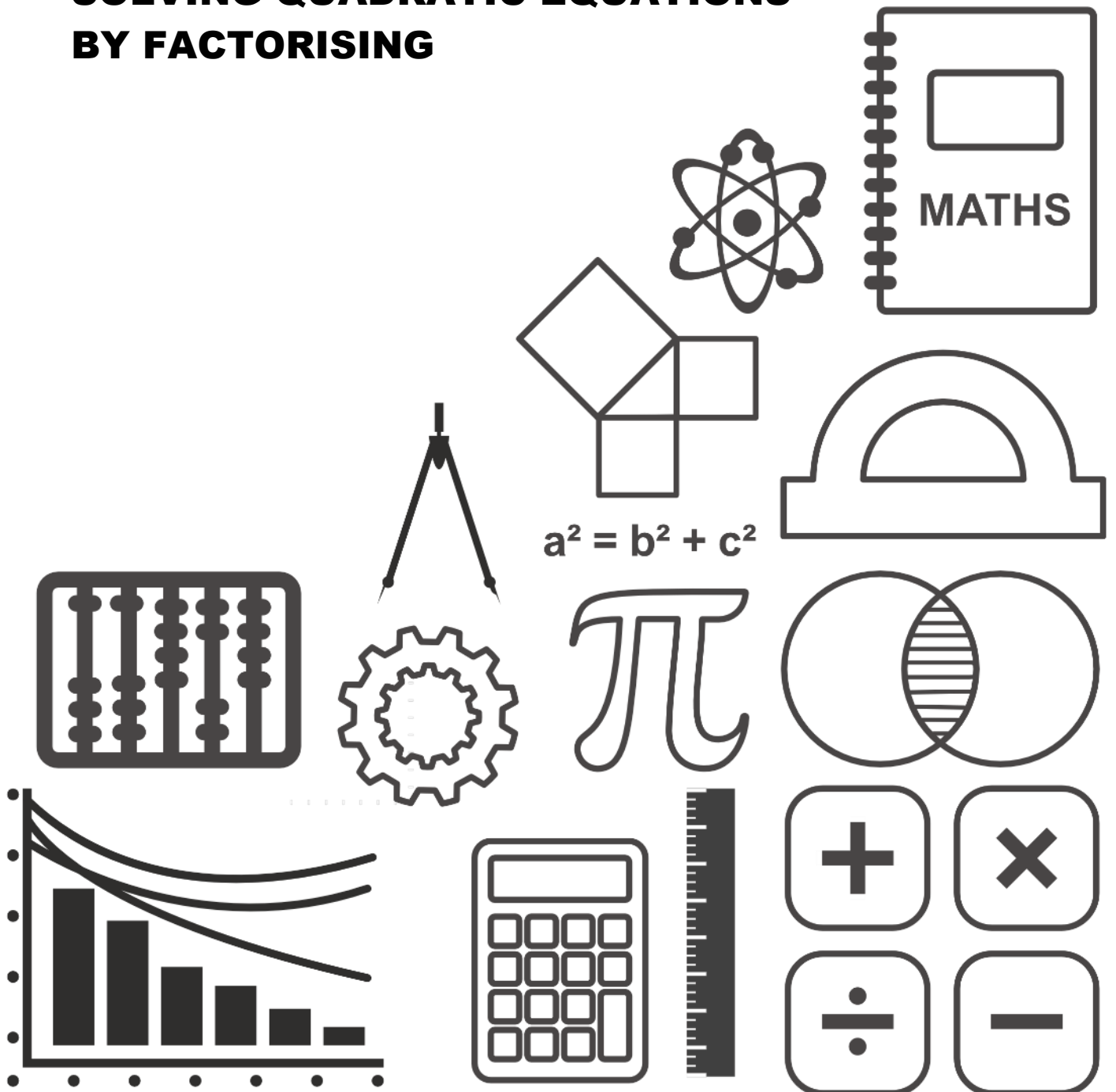


MATHSDIY

GCSE TOPIC BOOKLET SOLVING QUADRATIC EQUATIONS BY FACTORISING



1. Solve

$$(x + 2)(5x - 1) = 0.$$

[2]

2. Factorise the expression $x^2 - 9x - 10$ and hence solve the equation $x^2 - 9x - 10 = 0$.

[3]

3. Factorise the expression $10x^2 + 21x - 10$ and hence solve the equation $10x^2 + 21x - 10 = 0$.

[3]

4. Factorise the expression $x^2 - 5x + 6$ and hence solve the equation $x^2 - 5x + 6 = 0$.

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[3]

5. Factorise the expression $8x^2 - 26x - 7$ and hence solve the equation $8x^2 - 26x - 7 = 0$.

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[3]

6. Factorise the expression $6x^2 + 11x + 3$ and hence solve the equation $6x^2 + 11x + 3 = 0$.

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[3]

7. Factorise $3x^2 + 10x - 8$ and hence solve the equation $3x^2 + 10x - 8 = 0$.

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[3]

8. Factorise the expression $10t^2 + 11t + 3$ and hence solve the equation $10t^2 + 11t + 3 = 0$.

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[3]

9. Factorise the expression $15x^2 + 19x + 6$, and hence solve the equation $15x^2 + 19x + 6 = 0$.

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[3]

10. Factorise the expression $14w^2 + 23w + 3$ and hence solve the equation $14w^2 + 23w + 3 = 0$.

[3]

11. Factorise the expression $12x^2 + 11x - 15$ and hence solve the equation $12x^2 + 11x - 15 = 0$.

[3]