A Level Transition Lessons from GCSE:

Basic Algebra

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| **Rearranging Formula** |
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05: Factorising Harder Quadratics

Starter

Examples:



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06: Factorising Quads Summary



Decision time… Factorise the following



10 Quick Questions…

1. $x^{2}-6x$
2. $x^{2}-100$
3. $7x-x^{2}$
4. $4x^{2}-1$
5. $3x^{2}-21x$
6. $x^{2}-8x+16$
7. $6x^{2}+7x-3$
8. $5x-10x^{2}$
9. $10x^{2}+9x+2$
10. $x^{2}-x-20$

Special Cases:

1) $5-20r^{2}$ 2) $50s^{2}-2t^{2}$ 3) 3) $x^{6}-49$ 4) 4) $x^{12}-9y^{4}$

Past Paper Question



Using difference of 2 squares to find exact values…

Find the exact value of:

a) $105^{2}-95^{2}$ b) $2003^{2}-1997^{2}$

08: Simplifying Algebraic Fractions

Example:

$$\frac{3x+9}{x^{2}-9}$$



Exam Question



Exam Question 2





More Practice



