Maths Ext *Year Eleven*

Topic 1: Methods in Algebra

Index Laws

- $a^m \times a^n = a^{(m+n)}$
- $a^m \div a^n = a^{(m-n)}$
- $(a^m)^n = a^{mn}$
- $a^{-1} = \frac{1}{a}$
- $a^0 = 1$
- $(\frac{a}{b})^x = \frac{a^x}{b^x}$
- $(\frac{a}{b})^{-1} = \frac{b}{a}$
- $a^{\frac{p}{q}} = \sqrt[q]{a^p}$ or $(\sqrt[q]{a})^p$

Binomial Products

In general,
$(a+b+c+...)^2 = (a^2 + b^2 + c^2 + ... + 2ab + 2ac + 2bc + ...)$
Thus
- $(a+b)^2 = a^2 + 2ab + b^2$
- $(a-b)^2 = a^2 - 2ab + b^2$

Difference of Two Squares:
- $(a+b)(a-b) = a^2 - b^2$

Algebraic Fractions

- Always factorise first.
- When adding/subtracting fractions, square the denominator.

e.g. $\dfrac{ab - 2b^2}{6a^2b} \div \dfrac{a^2 - 4ab + 4b^2}{3a}$

$= \dfrac{b(a - 2b)}{6a^2b} \times \dfrac{3a}{(a - 2b)^2}$

$= \dfrac{1}{2a(a - 2b)}$

Cubics

In general, $(a+b+c+d...)^3 =$
$a^3 + b^3 + c^3 + ... + 3a^2b + 3a^2c + 3ac^2 + 3b^2c + ... + 6abc + 6abd + ...$
Thus
- $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
- $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

In general,
$a^n - b^n = (a - b)(a^{n-1} + a^{n-2}b + ... + ab^{n-2} + b^{n-1})$
And when n is odd,
$a^n + b^n = (a + b)(a^{n-1} - a^{n-2}b + ... - ab^{n-2} + b^{n-1})$
Thus
- $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$
- $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

Linear Equations

Make pronumeral the subject of formula:
$3c + 2 = c - 9$
$c = -\frac{11}{2}$

Quadratic Equations

- After factorising, if $ab = 0$ then $a = 0$ or $b = 0$
$x^2 + 9x + 18 = 0$
$(x + 6)(x + 3) = 0$
$\therefore x = -6, -3$

- Use quadratic formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
$2x^2 + 5x - 4 = 0$
$x = \dfrac{-5 \pm \sqrt{25 + 32}}{4}$
$x = \dfrac{-5 \pm \sqrt{57}}{4}$

To derive the quadratic formula: $ax^2 + bx + c = 0$.
$x^2 + \frac{b}{a}x + \frac{c}{a} = 0$
$x^2 + \frac{b}{a}x + (\frac{b}{2a})^2 - (\frac{b}{2a})^2 + \frac{c}{a} = 0$
$(x + \frac{b}{2a})^2 - \frac{b^2}{4a^2} + \frac{c}{a} = 0$
$(x + \frac{b}{2a})^2 = \frac{b^2 - 4ac}{4a^2}$
$x + \frac{b}{2a} = \pm\sqrt{\frac{b^2 - 4ac}{4a^2}}$
$x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

- Complete the square: add $(\frac{b}{2})^2$ to both sides of equation.
E.g. $x^2 + 6x - 7 = 0$
$x^2 + 6x + 9 - 7 = 9$
$(x + 3)^2 = 16$
$x + 3 = \pm 4$
$x = 1, -7$

Simultaneous Equations

- Amount of equations required = number of pronumerals.
- Eliminate a variable:
- $2x + 3y = 21 \rightarrow (1)$
$5x + 2y = 3 \rightarrow (2)$
$(1) \times 2$ and $(2) \times 3$
$4x + 6y = 42 \rightarrow (3)$
$15x + 6y = 9 \rightarrow (4)$
$(4) - (3)$
$11x = -33$
$x = -3$
Substitute $x = -3$ into (2)
$3y = 27$
$\therefore x = -3, y = 9$
- Solving by substitution:
$x = 7 \rightarrow (1), y + \frac{1}{x} = 9 \rightarrow (2)$
$y = 9 - \frac{1}{7} = \frac{62}{7}$

Extension Maths 1

Sabine Zange

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