Maths Ext year Eleven

Topic 1: Methods in Algebra

Index Laws

- $-a^{(m)}>(a^m-a^{(m+m)})$
- w + w w (m-n)
- Caree has no superior

- $=\left(\frac{dt}{ds}\right)^{\frac{1}{2}} = \frac{dt^{2}}{2\sqrt{2}}$
- . (Sy-1 = 2
- The Die on obline

Binomial Products

An increased,

 $(a+b+c+...)^2 = (a^2+b^2+c^2+...+2ab+2ac+2bc+...)$

- $-(a+b)^2 = a^2 + 2ab + b^2$
- $-(a + b)^2 = a^2 2ab + b^2$

Difference of Two Squares:

$$-(a+b)(a-b) = a^2 - b^2$$

Algebraic Fractions

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

$$= a \cdot \frac{ab - 2b^2}{6a^2b} + \frac{a^2 - 4ab + 4b^2}{3a}$$

$$= \frac{b(a - 2b)}{8a^2b} \times \frac{3a}{(a - 2b)^2}$$

$$= \frac{1}{2a\sin - 2\delta a}$$

Cubics

In personal, $(a + b + c + d \dots)^3 =$

4 + 5 + 5 + 5 + ... + 3 4 5 + 3 4 2 + 3 4 4 + 3 6 4 + ... + 6 4 6 4 + ...

 $-(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$

$$-(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

$$-(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

he uneversal.

 $a^n - b^n = (a - b)(a^{n-1} + a^{n-2}b + ... + ab^{n-2} + b^{n-1})$

Acred refrest pe in colds.

 $a^n + b^n = (a + b)(a^{n-1} - a^{n-2}b + ... - ab^{n-2} + b^{n-1})$

$$-a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

$$-a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

Linear Equations

Make programmed the subject of formula:

$$3z + 2 = z - 9$$

$$z = -\frac{13}{2}$$

Quadratic Equations

- . After factorising, if a b = 0 then a = 0 or b = 0
- $x^2 + 9y + 18 = 0$
- 6x + 606x + 30 = 0
- 2.36 6. 3.
- . Use quadratic formula, $s = \frac{-b \pm \sqrt{b^2 4ac}}{c}$
- $2x^2 + 3x 4 = 0$
- $-5 \pm \sqrt{28 + 32}$
- $x = -5 = \sqrt{57}$

To derive the quadratic formula: $a x^2 + b x + c = 0$.

- . Complete the square: $add \left(\frac{dr}{2}\right)^2$ to both sides of equation.
- $\sin x^2 + 6x 7 = 0$
- $a^2 + 6a + 9 7 = 9$
- $10^{\circ} + 30^{\circ} 16^{\circ}$ a + 3 - 64
- x = 1, -7

Simultaneous Equations

- Amount of equations required * mamber of promuturals.
- · Ellienimane a variable:
- +2x+3x+21-411
- 5x + 2y 3 (2)
- (13 to 2 and (2) to 3
- $4x = 6x = 42 \rightarrow 135$
- $15x = 6y = 9 \rightarrow 640$
- 140 000
- $3.1 \times - 33$
- 4 10 3
- Substitute x m 3 into (2)
- 3w = 27
- $x_1 x_2 = -3$, $y_1 = 9$.
- Solving by submittations:
- $n = 7 \rightarrow (1), y + \frac{1}{4} = 9 \rightarrow (2)$
- $y = 9 \frac{1}{2} = \frac{62}{2}$

Extension Maths 1

David Baker

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