

A LEVEL PURE MATHS REVISION NOTES

1 ALGEBRA AND FUNCTIONS

a) INDICES

Rules to learn :

$$x^a \times x^b = x^{a+b} \quad x^a \div x^b = x^{a-b} \quad (x^a)^b = x^{ab} \quad x^{-a} = \frac{1}{x^a} \quad x^{\frac{a}{b}} = \sqrt[b]{x^a} = (\sqrt[b]{x})^a$$

$$\begin{aligned} \text{Simplify } 2x(x-y)^{\frac{1}{2}} + 3(x-y)^{\frac{1}{2}} \\ = (x-y)^{\frac{1}{2}}(2x(x-y) + 3) \\ = (x-y)^{\frac{1}{2}}(2x^2 - 2xy + 3) \end{aligned}$$

$$\begin{aligned} \text{Solve } 3^{2x} \times 25^{-x} &= 15 \\ (3 \times 5)^{2x} &= 15^2 \\ 2x &= 1 \\ x &= \frac{1}{2} \end{aligned}$$

b) SURDS

- A root such as $\sqrt{3}$ that cannot be written as a fraction is IRRATIONAL
- An expression that involves irrational roots is in SURD FORM
- RATIONALISING THE DENOMINATOR is removing the surd from the denominator (multiply by the conjugate)

Simplify

$$\begin{aligned} \sqrt{75} - \sqrt{12} \\ = \sqrt{5 \times 5 \times 3} - \sqrt{2 \times 2 \times 3} \\ = 5\sqrt{3} - 2\sqrt{3} \\ = 3\sqrt{3} \end{aligned}$$

Rationalise the denominator $\frac{2}{2-\sqrt{3}}$

$$\begin{aligned} &= \frac{2}{2-\sqrt{3}} \times \frac{2+\sqrt{3}}{2+\sqrt{3}} \\ &= 4 + 2\sqrt{3} \end{aligned}$$

The conjugate of the denominator $2 - \sqrt{3}$ is $2 + \sqrt{3}$ so that $(2 - \sqrt{3})(2 + \sqrt{3}) = 2^2 - \sqrt{3}^2 = 1$

c) QUADRATIC EQUATIONS AND GRAPHS

Factorising – Identifying the roots of the equation $ax^2 + bx + c = 0$

- Look for the difference of 2 squares $x^2 - a^2 = (x + a)(x - a)$ or $(ax)^2 - b^2 = (ax + b)(ax - b)$
- Look for the perfect square $x^2 + 2ax + a^2 = (x + a)^2$
- Look out for equations which can be transformed into quadratic equations

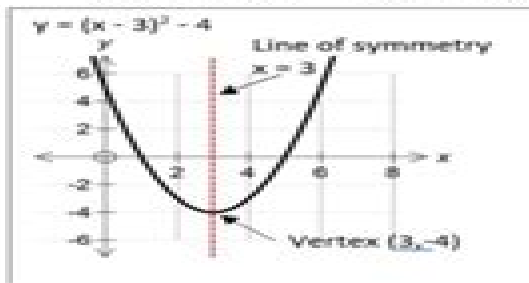
$$\begin{aligned} \text{Solve } x + 1 - \frac{12}{x} &= 0 \\ x^2 + x - 12 &= 0 \\ (x + 4)(x - 3) &= 0 \\ x &= -4 \quad x = 3 \end{aligned}$$

$$\begin{aligned} \text{Solve } 6x^4 - 7x^2 + 2 &= 0 \\ \text{Let } z = x^2 \quad 6z^2 - 7z + 2 &= 0 \\ (2z - 1)(3z - 2) &= 0 \end{aligned}$$

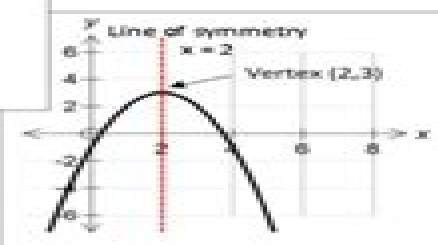
$$z = \frac{1}{2} \quad x = \pm \sqrt{\frac{1}{2}} \quad z = \frac{2}{3} \quad x = \pm \sqrt{\frac{2}{3}}$$

Completing the square – Identifying the vertex and line of symmetry

$$y = (x + a)^2 + b \quad \text{vertex at } (-a, b) \quad \text{line of symmetry as equation } x = -a$$



$$\begin{aligned} \text{Sketch the graph of } y &= 4x - x^2 - 1 \\ y &= -(x^2 - 4x) - 1 \\ y &= -(x^2 - 4x + 4) - 1 \\ y &= -(x - 2)^2 + 3 \end{aligned}$$



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