

A LEVEL PURE MATHS REVISION NOTES

1 ALGEBRA AND FUNCTIONS

1.1 INDICES

Rules to learn:

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

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

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

1.2 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 $(2 - \sqrt{3})(2 + \sqrt{3}) = 2^2 - (\sqrt{3})^2 = 1$

1.3 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

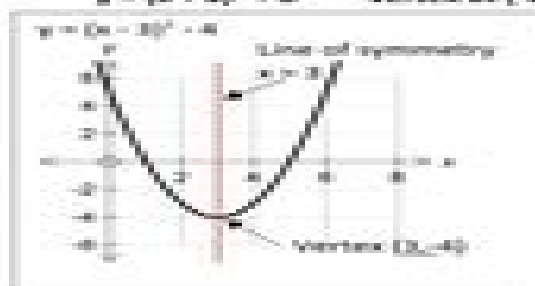
$$\begin{aligned} \text{Solve } x + 1 - \frac{x^2}{2} &= 0 \\ x^2 + x - 2 &= 0 \\ (x+2)(x-1) &= 0 \\ x &= -2 \quad x = 1 \end{aligned}$$

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

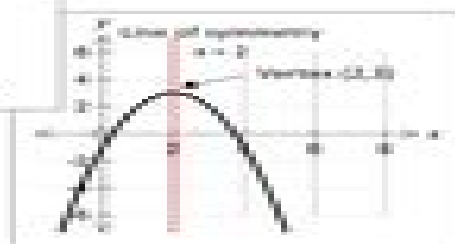
$$z = \frac{1}{2} \quad z = \frac{2}{3} \quad x = \pm \sqrt{\frac{1}{2}} \quad x = \pm \sqrt{\frac{2}{3}}$$

Completing the square = identifying the vertex and line of symmetry

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



$$\begin{aligned} \text{Sketch the graph of } x + 8x + x^2 &= 1 \\ x &= -(x^2 + 8x) - 1 \\ x &= -(x^2 + 8x + 16) + 15 \\ x &= -(x+4)^2 + 15 \end{aligned}$$



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