

Adding surds

Product rule for surds:
 $\sqrt{a} \times \sqrt{b} = \sqrt{a \times b}$ in 4 ways to arrange the letters A, B and C.

Quotient rule for surds

Quotient rule for surds:
 $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$

$$\frac{\sqrt{12}}{\sqrt{3}} = \sqrt{\frac{12}{3}} = \sqrt{4} = 2$$

$$\frac{\sqrt{18}}{\sqrt{2}} = \sqrt{\frac{18}{2}} = \sqrt{9} = 3$$

Surds

Look for the biggest square number factor of the number:
 $\sqrt{18} = \sqrt{9 \times 2} = 3\sqrt{2}$

Rationalise the denominator

Multiply the numerator and denominator by the expression that makes the denominator an integer:
 $\frac{1}{\sqrt{2}} = \frac{1 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = \frac{\sqrt{2}}{2}$

$$\frac{1}{\sqrt{3}} = \frac{1 \times \sqrt{3}}{\sqrt{3} \times \sqrt{3}} = \frac{\sqrt{3}}{3}$$

$$\frac{1}{\sqrt{5}} = \frac{1 \times \sqrt{5}}{\sqrt{5} \times \sqrt{5}} = \frac{\sqrt{5}}{5}$$

Standard form

Standard form: numbers are of the form $a \times 10^n$, where $1 \leq a < 10$ and n is an integer.
 $150 = 1.5 \times 10^2$

Standard notation

Write a recurring decimal as a fraction:
 $0.\overline{3} = \frac{1}{3}$

Draw digits up to the recurring pattern, or multiply by 100:
 $0.\overline{36} = \frac{36}{100} = \frac{9}{25}$

(How is the same as $\frac{36}{100}$)
 $0.\overline{36} = \frac{36}{100} = \frac{9}{25}$

Standard form

Find the range of numbers that will result in a given value:
 $x = 1.5 \times 10^2$ (decimal places)
 $1.5 \times 10^2 = 150$

$x = 1.5 \times 10^2$ (significant figures)
 $1.5 \times 10^2 = 150$

Find the range of x and y , and then find the significant figure of each to 1.

Standard form

An equation is true for some particular value of x :
 $2x + 3 = 7$ then $x = 2$
 ...but we identify it as the only value of x .

$x^2 + 2x + 1 = 0$ then $x = -1$
 (note the use of the symbol \pm)

Index of a power

For any value a :
 $a^1 = a$
 $a^2 = a \times a$
 $a^3 = a \times a \times a$

Index of a power

For any value a :
 $a^1 = a$
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 $a^3 = a \times a \times a$

$$\left(\frac{1}{2}\right)^3 = \frac{1}{2^3} = \frac{1}{8}$$

Index of a power

The subject of a formula is the term on its own. Rearrange to:
 x is the subject of

$$2x + 3y = 10$$

$$2x = 10 - 3y$$

$$x = \frac{10 - 3y}{2}$$

Index of a power

Completing the square:
 $x^2 + 6x + 9 = 0$

$$(x + 3)^2 = 0$$

$$x + 3 = 0$$

Index of a power

Equation of straight line $y = mx + c$, m is the gradient, c is the y -intercept.
 $y = 2x + 3$ then $m = 2$, $c = 3$

Find the gradient:
 $\frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 1}{2 - 1} = 2$

...and the y -intercept:
 Passes through $(0, 3)$, so $c = 3$
 Equation is $y = 2x + 3$

Parallel lines: gradients are equal.
 Perpendicular lines: gradients are negative reciprocals.

$y = 2x + 3$ and $y = -\frac{1}{2}x + 3$ are parallel in both cases.
 $y = 2x + 3$ and $y = \frac{1}{2}x + 3$ are perpendicular.

Transformation of graphs:
 Starting with the curve $y = x^2$

Translation $\left(\begin{smallmatrix} 2 \\ 0 \end{smallmatrix}\right)$ for $y = (x - 2)^2$

Translation $\left(\begin{smallmatrix} 0 \\ 3 \end{smallmatrix}\right)$ for $y = x^2 + 3$

Reflection in $y = x$ for $y = -x^2$

Stretch x axis by 2 for $y = 4x^2$

Stretch y axis by 4 for $y = x^2 + 4$

Stretch x axis by 2 for $y = \frac{1}{4}x^2$

Stretch y axis by 4 for $y = 4x^2$

Stretch x axis by 2 for $y = \frac{1}{4}x^2$

Stretch y axis by 4 for $y = 4x^2$

Stretch x axis by 2 for $y = \frac{1}{4}x^2$

Stretch y axis by 4 for $y = 4x^2$

Standard graphs



Standard graphs

If a quadratic equation cannot be factorised, use the formula:
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$$x = \frac{-2 \pm \sqrt{2^2 - 4(1)(-3)}}{2(1)}$$

$$x = \frac{-2 \pm \sqrt{4 + 12}}{2}$$

$$x = \frac{-2 \pm \sqrt{16}}{2}$$

$$x = \frac{-2 \pm 4}{2}$$

$$x = \frac{-2 + 4}{2} = 1$$

$$x = \frac{-2 - 4}{2} = -3$$

Complete the square to find the turning point of a quadratic graph:
 $y = x^2 + 6x + 9$

$$y = (x + 3)^2$$

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Right-angled triangles

Pythagoras' Theorem:
 Lengths of three sides:
 By angles:
 $a^2 + b^2 = c^2$

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Surds

You will be given the formulae to use:
 $\sqrt{a} \times \sqrt{b} = \sqrt{a \times b}$
 $\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$
 Start with $a = 1, b = 1$

$$a_1 = \sqrt{1 \times 1} = 1$$

$$a_2 = \sqrt{1 \times 1} = 1$$

$$a_3 = \sqrt{1 \times 1} = 1$$

$$a_4 = \sqrt{1 \times 1} = 1$$

$$a_5 = \sqrt{1 \times 1} = 1$$

$$a_6 = \sqrt{1 \times 1} = 1$$

$$a_7 = \sqrt{1 \times 1} = 1$$

$$a_8 = \sqrt{1 \times 1} = 1$$

$$a_9 = \sqrt{1 \times 1} = 1$$

$$a_{10} = \sqrt{1 \times 1} = 1$$

$$a_{11} = \sqrt{1 \times 1} = 1$$

$$a_{12} = \sqrt{1 \times 1} = 1$$

$$a_{13} = \sqrt{1 \times 1} = 1$$

$$a_{14} = \sqrt{1 \times 1} = 1$$

$$a_{15} = \sqrt{1 \times 1} = 1$$

$$a_{16} = \sqrt{1 \times 1} = 1$$

$$a_{17} = \sqrt{1 \times 1} = 1$$

$$a_{18} = \sqrt{1 \times 1} = 1$$

$$a_{19} = \sqrt{1 \times 1} = 1$$

$$a_{20} = \sqrt{1 \times 1} = 1$$

$$a_{21} = \sqrt{1 \times 1} = 1$$

$$a_{22} = \sqrt{1 \times 1} = 1$$

$$a_{23} = \sqrt{1 \times 1} = 1$$

$$a_{24} = \sqrt{1 \times 1} = 1$$

$$a_{25} = \sqrt{1 \times 1} = 1$$

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Jiyuan Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Jiyuan Zhang.

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