

## Arithmetic sequences:

sequences going up in even steps

- $a$  - first number of a sequence
- $d$  - the difference between terms
- $n$  - last number of a sequence
- $u_n$  - the  $n^{\text{th}}$  term
- $S_n$  - the sum of  $n$  terms

$$u_1 = a$$

$$u_2 = a + d$$

$$u_3 = a + 2d$$

$$u_4 = a + 3d$$

$$\dots$$

$$u_n = a + (n-1)d$$

NO of terms:  $1 \leq n \leq (a+nd)/d$   
(where all but  $n$  is given)

$$S_n = a + (a+d) + (a+2d) + \dots + (a+(n-1)d)$$

$$= n \times (a+d) + (n-2)d + (n-4)d + \dots + (a+(n-1)d)$$

$$2S_n = (2a + (n-1)d) + (2a + (n-1)d) + \dots + (2a + (n-1)d)$$

$$2S_n = n(2a + (n-1)d)$$

$$S_n = \frac{n}{2}(2a + (n-1)d)$$

$$S_n = \frac{n}{2}n(a + l)$$

$$\sum_{i=1}^n a_i = a_1 + a_2 + \dots + a_n$$

terms of a sequence  
added together  
not resulting sum  
= totals

"terms" or "steps"  $\rightarrow$  work out as if unknown  
"early" or "late"  $\rightarrow$  just use the number given

## Differentiation

$\frac{dy}{dx}$  or  $f'(x)$  is the rate of change of  $y$   
with respect to  $x$ ,  
the gradient of a graph given  
in terms of  $x$  and  $y$ ,  
first derivative of  $y$  with respect to  $x$ ,  
 $y$  differentiated

There is also the rate of change of the rate of change

$$\frac{d}{dx} \left( \frac{dy}{dx} \right)$$

$$\frac{d^2y}{dx^2} = f''(x)$$

$$\frac{d^3y}{dx^3} = f'''(x)$$

$$\frac{d^4y}{dx^4} = f^{(4)}(x)$$

$$\frac{d^5y}{dx^5} = f^{(5)}(x)$$

$$\frac{d^6y}{dx^6} = f^{(6)}(x)$$

$$\frac{d^7y}{dx^7} = f^{(7)}(x)$$

$$\frac{d^8y}{dx^8} = f^{(8)}(x)$$

$$\frac{d^9y}{dx^9} = f^{(9)}(x)$$

$$\frac{d^{10}y}{dx^{10}} = f^{(10)}(x)$$

$$\frac{d^{11}y}{dx^{11}} = f^{(11)}(x)$$

$$\frac{d^{12}y}{dx^{12}} = f^{(12)}(x)$$

$$\frac{d^{13}y}{dx^{13}} = f^{(13)}(x)$$

$$\frac{d^{14}y}{dx^{14}} = f^{(14)}(x)$$

$$\frac{d^{15}y}{dx^{15}} = f^{(15)}(x)$$

$$\frac{d^{16}y}{dx^{16}} = f^{(16)}(x)$$

$$\frac{d^{17}y}{dx^{17}} = f^{(17)}(x)$$

$$\frac{d^{18}y}{dx^{18}} = f^{(18)}(x)$$

$$\frac{d^{19}y}{dx^{19}} = f^{(19)}(x)$$

$$\frac{d^{20}y}{dx^{20}} = f^{(20)}(x)$$

$$\text{if } y = ax^n$$

$$\text{then } \frac{dy}{dx} = a \times n \times x^{n-1}$$

constants "disappear" on differentiation

tangents are straight lines with the same  
gradient as the curve at a specific point

normal to expressions in terms of powers of  $x$  first  
the normal is perpendicular to the tangent ( $\frac{1}{m}$ ) and  
intersects with the tangent and curve at the given point

$$y - y_1 = m(x - x_1)$$

$\rightarrow$  for all straight lines

Integration: Differentiation backwards

$$\text{if } y = ax^n$$

$$\text{then } \int y \, dx = \frac{ax^{n+1}}{n+1} + C$$

(given a derivative, we can work out the function,  
including the arbitrary constant by substituting in  
the values at a given point)

## Quadratic sequences

equation  $u_n = an^2 + bn + c$

for  $n = 1, 2, 3 \dots$  for first 3

$\Delta_1$  point is the smallest value of  
 $y$  for which  $bx + c = 0$

collecting (often possible too)  
alternating above/below a  
middle number  
if  $\Delta_1 \neq 0$

Graphs etc.

quadratic inequalities  
if  $a > 0 \rightarrow$  other side of solution  
if  $a < 0 \rightarrow$  between solutions  
if  $a = 0 \rightarrow$  other way round

quadratic:

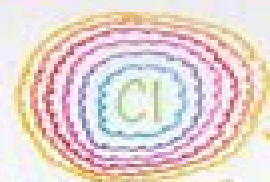


ratio:



$y = a(x+b) \rightarrow$  multiply quadratics by  $a$   
 $y = f(x)g(x) \rightarrow$  multiply  $f(x)$  by  $g(x)$   
 $y = f(x)g(x) \rightarrow$  multiply  $f(x)$  by  $g(x)$   
 $y = f(x)g(x) \rightarrow$  multiply  $f(x)$  by  $g(x)$   
 $y = f(x)g(x) \rightarrow$  multiply  $f(x)$  by  $g(x)$

Remember to change diff points



Don't forget  
to subtract  
divisor point

STATE  
what it is given find  
the solution for  
itself

Don't divide by  
your variable  
you'll lose a solution!

The discriminant:

$$ax^2 + bx + c = 0$$

when  $b^2 - 4ac > 0$  there are two solutions/roots  
 $b^2 - 4ac = 0$  two equal solutions/one opt. root  
 $b^2 - 4ac < 0$  no real solutions

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**Peipei Pang**



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