Mathematics - Sums

1. Find the sum of first 10 natural numbers.
Solution:
S = n(n+1)/2 = (10 * 11)/2 = 55
2. Find the sum of first 5 even numbers.
Solution:
Even numbers: 2, 4, 6, 8, 10
Sum = $2 + 4 + 6 + 8 + 10 = 30$
Physics - Derivations
Device the section of colories to the second
Derivation of velocity formula
Starting from acceleration:
a = dv/dt
Integrate both sides with respect to time:
Integral of a dt = Integral of dv
Result:
v = u + at
where:

v = final velocity

u = initial velocity

a = acceleration

t = time