


13th Jan	
Find $\int (20x^3 + \sqrt{x}) dx$	 Corbettmaths
A sequence a_1, a_2, a_3, \dots is defined as $a_1 = 5$ $a_{n+1} = 3a_n - 2$ Calculate the sum of the first five terms.	
An outdoor theatre has seats arranged in rows There are 34 seats in row 7. There are 86 seats in row 20. The number of seats in each row form an arithmetic progression.	Find how many seats are in the first row.
Solve the simultaneous equations $x = 3y + 6$ $3xy = 24 - x$	
Write $x^2 + 8x + 17$ in the form $(x + a)^2 + b$	Find the coordinates of the turning point of $y = x^2 + 8x + 17$