

6th Dec



Corbettmaths

Find

$$\int (12x^3 + 5)dx$$

Simplify fully

$$(64x^5)^{-1/3}$$

Find the set of values of  $x$  for which

**both**  $15 + 2x > 3 - x$

**and**  $x^2 + 2x \leq 35$

A sequence  $a_1, a_2, a_3, \dots$  is defined as

$$a_{n+1} = 5a_n + 6$$

Given that  $a_2 = 21$ Find  $a_1$ 

Find

$$\sum_{r=1}^5 a_r$$