Name: _____ 5-a-day Core 1

11th April

Corbettmaths

Simplify

$(5\sqrt{3})^3$

Find the set of values of x for which
both
$5x - 6 > 24 - x$
and
$2x^2 - 5x - 12 \geq 0$

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

$a_1 = k$
$a_{n+1} = 2a_n - 3$

Find a_3 in terms of k.

Given

$\sum_{r=1}^{4} a_r = 72$

Find the value of k

Given

$C = 40 - 4t + \frac{1}{3}t^2$

Find

$\frac{d^2C}{dt^2}$

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