2(3) $f(x) = x^{2/3}$ for $x \in [0, 1]$. For $a = 0$ and $b = 1$ find a $c$ between $a$ and $b$, such that $f'(c) = \frac{f(b) - f(a)}{b - a}$.

Hint: just solve $f'(c) = \frac{f(b) - f(a)}{b - a}$ for $c$. 4 symbols, checksum=17

42(3) Let $s(t)$, $v(t)$, $a(t)$ be the position, velocity and acceleration of a point on the $y$-axis at time $t$. $a(t) = -6t$, $v(0) = 2$, $s(0) = 3$. Find the position $s(t)$ at any time $t$.

First find $v(t)$. 6 symbols, checksum=7

Second find $s(t)$. 8 symbols, checksum=8