Exercise 6-10

Tuesday, 5 May 2020 12:32

 $\frac{d}{dt} = \int ds - \int dr$

$$ds = \frac{dQ}{dT} = \frac{\sqrt{v} dT}{T}$$

$$\frac{ds}{d7} = \frac{C_v}{T}$$

$$(v = 7) \left(\frac{ds}{d7}\right) = 7 \left(\frac{2s}{27}\right)v$$

$$\frac{ds}{dt} = \frac{c_v}{\tau} = \frac{aT+bT^3}{\tau} = a+bT^2$$

$$ds = \left(a + b 7^2\right) dT$$

$$S(T) = \int ds = \int a+b7^2 dT$$

= a7+5b7 3 +50

integration Constant