. We are interested in two functions:
. The heaviside step function, defined by

f(N)= { | for x <0 = M(X)

· delta functions, which apply a set amount of force instantly to

 $u'(t) = \delta(t)$

The Heaviside step is undefined out 0

·Me also define the box function

Uab(t) = \int act < s

C + 76

Val(t) = M(t-a) - 4 (t-6)

$$\int_{C}^{C} \delta(t) dt = \begin{cases} 1 & \text{if } c < 0 < d \\ 0 & \text{else} \end{cases}$$

δ (t) = 0 if t=0, oelse.

2: Break the integrand apart:
$$\int 58(++1)t + \int 38(+) dt + \int + \int 48(+-5) dt + \int + \int 48(+-20) dt$$
0 + 3 + 25 + 0

285 C.

3: a)

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