

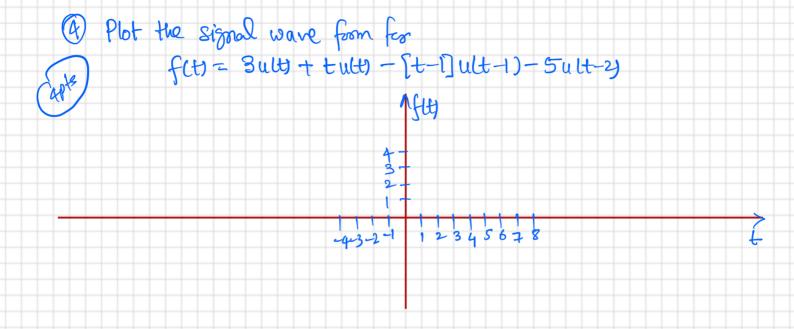
4 mathematically useful function is unit rectangular subse with time possiod T as shown below:

Test (+/T) = { 1, -T/2 < t < T/2 }

vect (+/T) = { 1, otherwise

- @ Sketch the rect (t/T).
- (b) would down rect (t/T) whin ult-to) where you can choose to based on the time posted T.

 Note 8 more than one answer is possible.



 \mathcal{S} Find $\int_{-\infty}^{\infty} \mathcal{S}(bt-a)\cos^2(t-c)dt$. Hint: Use a change of varyable.