

Homework 8: Additional problems
— Answers

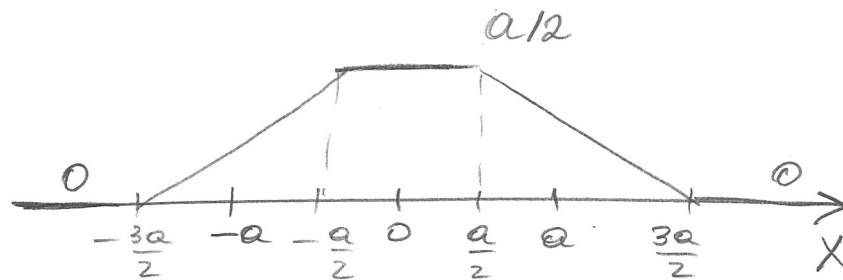
(1)

#3: (a) $\sin(x+t)$

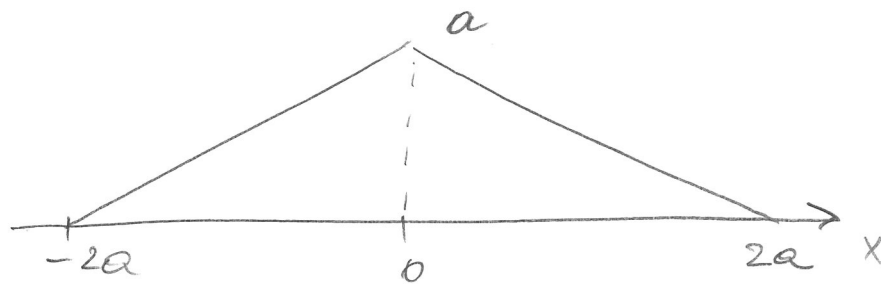
(b) $\frac{1}{2} \ln(1+(x+t)^2) + \frac{1}{2} \ln(1+(x-t)^2)$

$+4t + tx.$

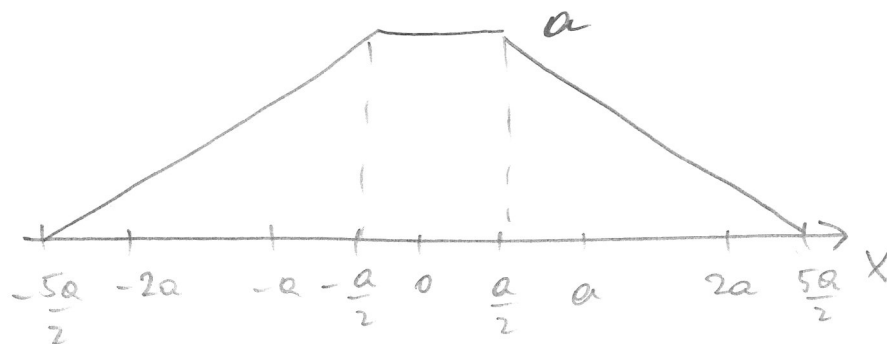
#4



$t = \frac{a}{2}$



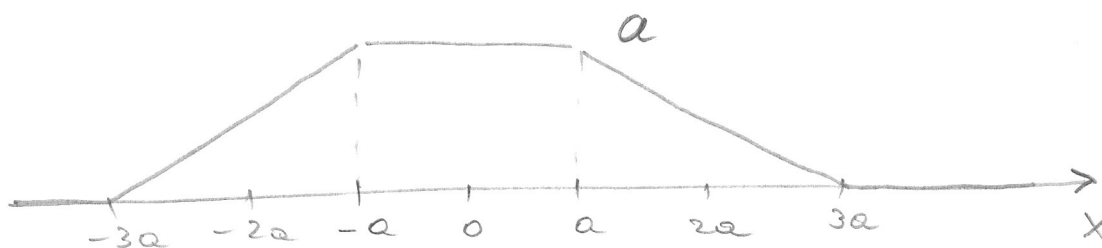
$t = a$



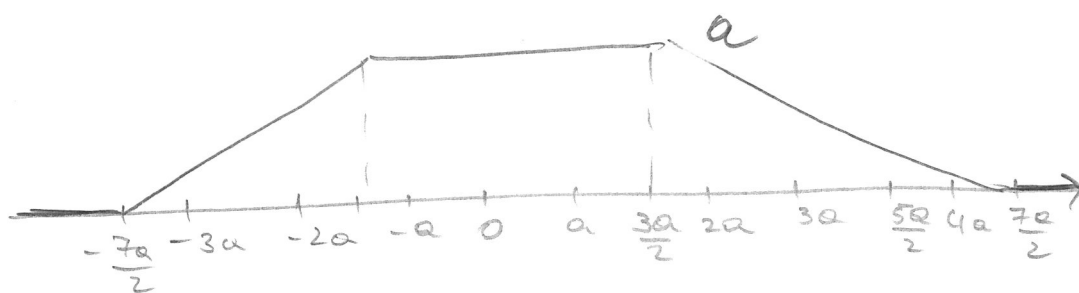
$t = \frac{3a}{2}$

2

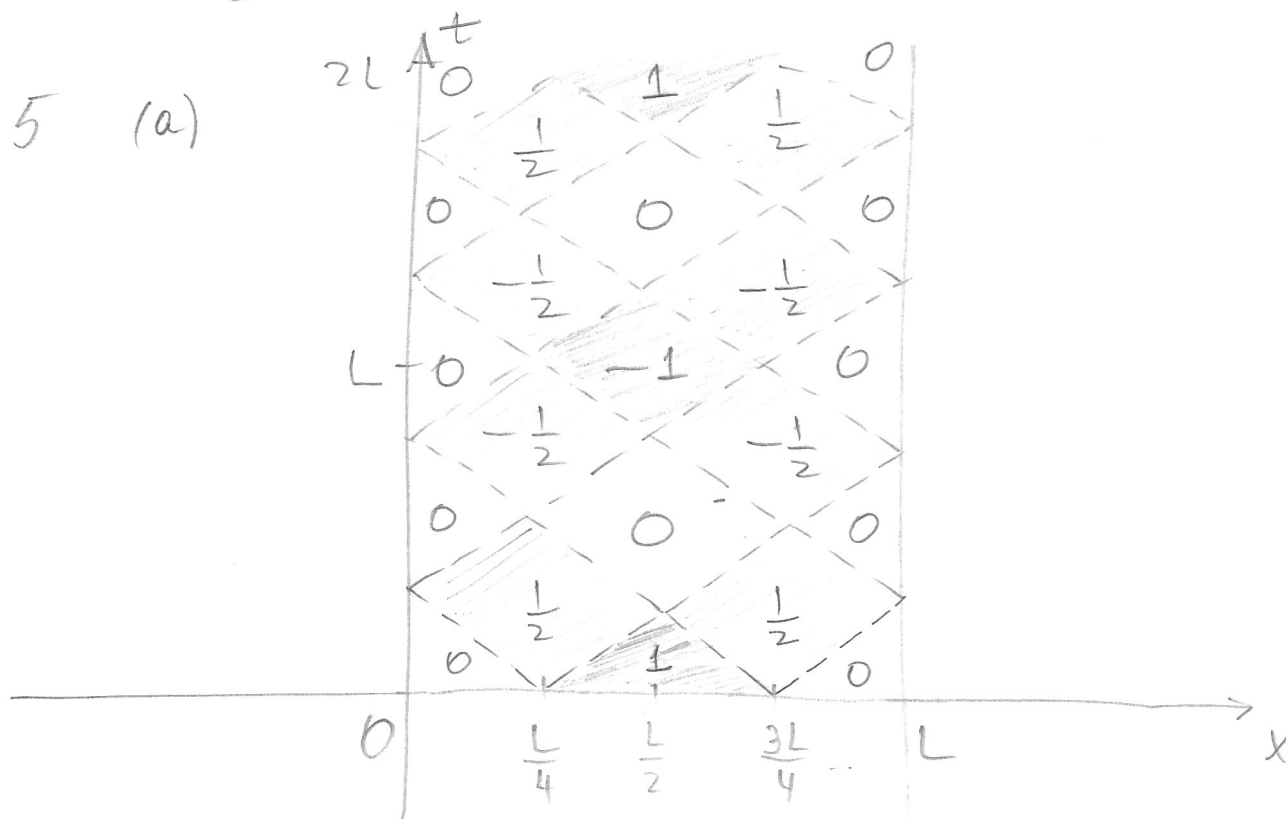
$$t = 2a$$



$$t = \frac{5a}{2}$$

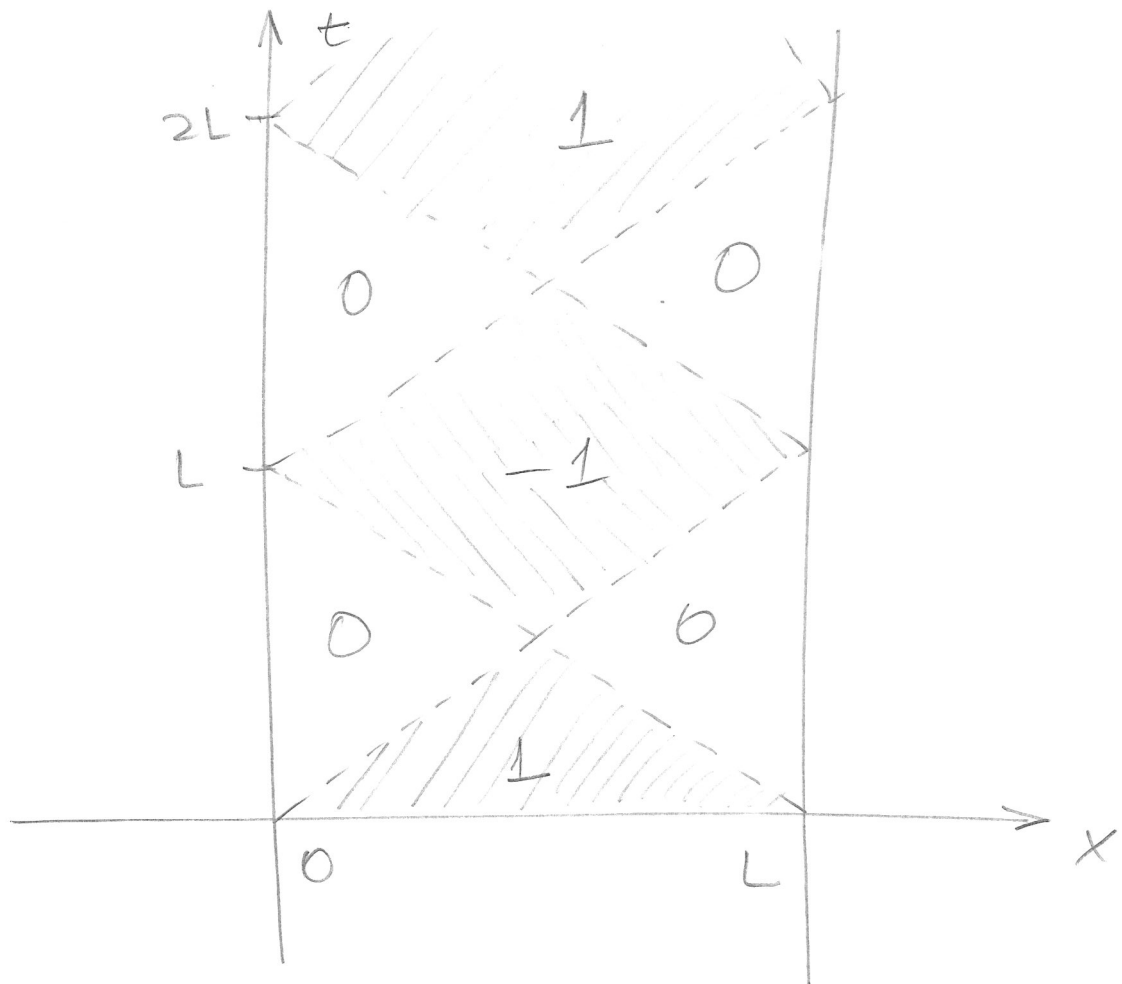


#5 (a)



(b)

3



#6

