ANS:

## **EX:** Fill in the following table with check marks for the functions shown below.

	(a)	(b)	(c)	(d)	
The function is odd					
The function is even					
The function has shift-flip symmetry					
$a_v = 0$ (DC offset)					
All the $a_k$ are zero (not including $a_v$ )					
All bk are zero for even-numbered subscripts					
v(t) $v(t)$					•
t $t$ $t$ $t$ $t$ $t$ $t$ $t$ $t$ $t$		(b)			
v(t) $v(t)v(t)T$ $t$ $0$		(d)			<b>_</b>
(c) The function is odd	(a)	(d) (b) √	(c) √	(d)	

	(a)	(0)	(C)	(u)
The function is odd		$\checkmark$	$\checkmark$	
The function is even				
The function has shift-flip symmetry	$\checkmark$			$\checkmark$
$a_v = 0$ (DC offset)	$\checkmark$			$\checkmark$
All the $a_k$ are zero (not including $a_v$ )				
All $b_k$ are zero for even-numbered subscripts	$\checkmark$			$\checkmark$