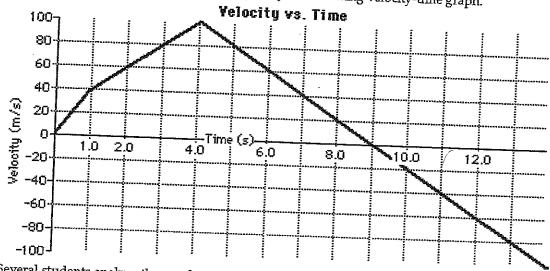
Interpreting Velocity-Time Graphs

The motion of a two-stage rocket is portrayed by the following velocity-time graph.



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vera e cor	veral students analyze the graph and make the following statements. Indicate whether the statement correct or incorrect. Justify your answers by referring to specific features about the graph.														
St	udent St	ateme	nt									ubout (nie Sta	Correct Yes or N	
	1. After 4 seconds, the rocket is moving in the negative direction (i.e.,														
	Justifica	tion:	<u>R</u> _D	ocke upl	<u>d </u>	has Iald	±V We.	_da	ret	o b	فس	5 a	bor	No	···
2	T77 .												<u>T -</u> V	el	
2.	The rock 0 to 1 sec	cet is to cond t	ravelin han th	g with	i a gre	ater sp	eed du	uring t	he tim	e inte	rval fr	om			
	Justificat		0	_l -	Me	w 40) M/S	e secor		- u	. 4		λ	» I	
						7 10					1744	<u>×10.</u>	<u>0</u>	<u> No</u>	
_						·········		·			· ·	11)			
3.	The rock	et chai	nges it	s direc	tion a	fter the	e fourt	h seco	nd.						
-	Justificati		_ <u>S</u>	Lop	e ix	2010	sen	5	acc	5	'n u	<u>e</u>	•	_ N a	
-	M	- Gy	$X \hookrightarrow A$	\ <i>J</i>	/~~~ ^		· ——	<u>م</u> ــــ			2		do	14-	
4. I	During the	ne time	interv	zal fro	りし m 4 to	8 22 22 V 2.	t. [[go; rerocl	cet is to	D,	g in th	e	<u> </u>	3 01	
	ustificati () (THE	<u> </u>	<u> </u>	<u>vill</u>) (e Jeloc	eel	s pe	eak	_at	98	<u>el</u>	40	
	·) —		·			9	
5. A	at nine se	conds	, the ro	cket h	as ret	urned	to its i	nitial s	tarting	g Rosil	ion.				
J:	ustificatio	on:	17	<u>````</u>	at		ux	<u> </u>	UZH	4				No	-