

NAME DATE

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i I	Т	he angul	lar accele	ration of	the line	e L							L		
elative to t	ne line	$L_0$ is given	ven as a	function	of time	by									
= 2.5 - 1	.2t  rad	$^{\prime}$ s <sup>2</sup> . At $t$	$=0, \theta =$	= 0 and t	he angu	ılar —									
elocity of and $\omega$ at $t =$	L relativ	ve to $L_0$	is $\omega = 5$	rad/s. D	etermin	e θ									
id w at i =	- J S.	ı	1 1	1 1		I I									
										\	$\theta$				
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														— I	$L_0$
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Solution:															
$\alpha = 2.5 - 1.2t$															
$\omega = 2.5t - 0.6$	2 _ 5														
$\theta = 1.25t^2 - 0$	$.2t^{3} + 5t$														
$\theta(3) =$			(3) = 20.85  r	nd .											
$\theta(3) =$		$0.2(3)^3 + 5(6)(3)^2 + 5 =$		nd											
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