

Date Started:		Date Completed:			Score:				
		P	Learn roblems Invo	ning Activity Ilving Polyno	Sheet mial Function	ns			
Answer the f	ollowing qu	estions. Use a	nother sheet	of paper if ne	cessary.				
The the equation	average fue $f(t) = 0.025$	cl consumed by $t^3 - 1.5t^2 + 18$.	y individual y 25t + 654, wl	vehicles in th here t isthe nu	e United Statumber of year	tes from 1960 rs since 1960	Oto 2000 is re	epresented by	
the points w	ith a smootl	Plot points ev h curve. You 25t ³ - 1.5t ² + 1	may also us	r starting from se agraphing	n 1965 to 20 calculator or	00. Makea ta Desmos/Ge	ible of values oGebra. Usin	and connecing a table of	
t	0	5	10	20	25	30	35	40	
f(t)	654								
Then, plot the	•	points of the	graph and it	s end behav	ior.				
Between 1965 to 1970, there is a relative					(maximum or minimum).				
For the end behavior, as t increases, F(t)					(increases or decreases).				
c. What tren	nds in fuel c	onsumption o	loes the grap	oh suggest?					