(15 points : 15 minutes)**2.** Use the data below to answer the questions on this page.

Community	Swimming Pools Per 1000 Homes	Annual High Temp. (°C)	Numb	er of	Poo	ls as	s a F	unc	tion	of ⁻	Гem	pe	rati	ure
1 2 3 4 5 6	380 430 199 331 224 260	45 45 29 36 33 30	satuon 1000 hours 1000 hours 1000 hours 1000 hours											
(a) Plot the	points on the	graph.	1 slood buiwwww 200 200 200 200 200 200 200 200 200 200	28	30	32	34	36 3	8 4	10 4	2	44	46	48
• •	ne the equation the data best							igh Te			1.0			
intercept =		slope =			equa	tion:								
• •	-	r, what is the estir if the annual hig				-	g 				_			
(d) What is	the value of tl	he linear correlati	on coeffic	cient fo	or the	two v	/ariat	oles?						
(e) What pe	rcentage of th	ne total variation i	in numbei	r of po	ols is	expla	ained	by yo	our li	ne?				
(f) Write the	symbolic exp	pressions and giv	ve the valu	ues for	the tl	nree i	tems	belo	w:					
	Total variation number of p		Explained variation in number of pools					Unexplained variation in number of pools						
Symbolic expression							-							
value							-							
(g) Write the	e symbolic ex	pression and give	e the valu	e for t	he sta	ndar	d erro	or of e	estim	ate:				

-

Symbolic expression