Pressure	Height	Temperature	Dewpoint	Relative Humidity	Mixing Ratio	DRCT	SKNT	THTA	THTE
hPa	m	C	C	%	g/kg	deg	knot	K	K
1021	81	0	-1.3	91	3.42	320	5	271.5	280.9
1013	143	3.8	-1.2	70	3.47	328	5	275.9	285.6
1009	174	4.4	-0.3	72	3.72	331	6	276.8	287.2
1000	245	4.4	0.1	74	3.87	340	6	277.6	288.4
992.8	304	4.4	0.1	74	3.9	345	6	278.1	289.1
984	377	4.4	0.1	74	3.93	345	6	278.8	289.9
963	553	5.4	-1.6	61	3.55	345	8	281.6	291.7
956.4	609	5.3	-1.9	59	3.48	345	8	282.1	292.1
940	751	5.2	-2.8	56	3.32	345	8	283.3	292.9
921.4	914	3.8	-3.3	60	3.26	345	8	283.5	292.9
919	935	3.6	-3.4	60	3.25	344	8	283.5	292.9
898	1122	2.6	-4.4	60	3.09	335	7	284.4	293.4
887.3	1219	1.7	-5.3	60	2.92	330	7	284.4	292.9
850	1564	-1.5	-8.5	59	2.38	310	7	284.6	291.6
822.2	1828	-2.4	-14.1	41	1.58	295	11	286.3	291.1
820	1850	-2.5	-14.5	39	1.52	295	11	286.4	291.1
794	2107	0.2	-12.8	37	1.81	290	15	292	297.6
791.4	2133	0.1	-12.9	37	1.8	290	15	292.1	297.8
761.7	2438	-1	-14	37	1.71	275	13	294.1	299.5
754	2520	-1.3	-14.3	37	1.68	268	14	294.7	300
735	2724	0.2	-18.8	22	1.19	252	18	298.5	302.4
733.2	2743	0.1	-18.8	23	1.19	250	18	298.6	302.5
700	3113	-1.7	-18.7	26	1.26	240	25	300.6	304.7
679.2	3352	-2.6	-19.6	26	1.19	240	26	302.1	306.1
661	3568	-3.5	-20.5	26	1.14	247	27	303.5	307.3
653.4	3657	-4.1	-20.9	26	1.12	250	28	303.8	307.5
628.3	3962	-6.3	-22.1	27	1.04	260	31	304.8	308.3
604.1	4267	-8.4	-23.3	29	0.97	260	32	305.7	309
558.5	4876	-12.8	-25.8	33	0.84	250	42	307.6	310.5
557	4897	-12.9	-25.9	33	0.84	250	42	307.6	310.5
542	5104	-14.9	-24.9	42	0.94	246	41	307.6	310.9
536.5	5181	-15.4	-25.6	41	0.89	245	41	308	311
500	5710	-18.7	-30.7	34	0.6	240	45	310.2	312.3

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272.1
276.5
277.5
278.2
278.8
279.5
282.2
282.7
283.9
284.1
284.1
284.9
284.9
285
286.6
286.7
292.3
292.5
294.5
295
298.7
298.8
300.8
302.3
303.7
304
304.9
305.9
307.7
307.8
307.8
308.1
310.3

ENGR 130, Fall 2020 **Fred Chambers**
Exam 1, Section 2

Chart Instructions: Fill in the chart below to calculate the volume of a cylin
The formula for volume of a cylinder is **V=r^2*h**, where r is the radius and h
Enter the appropriate FORMULAS into columns C and D to calculate the rad

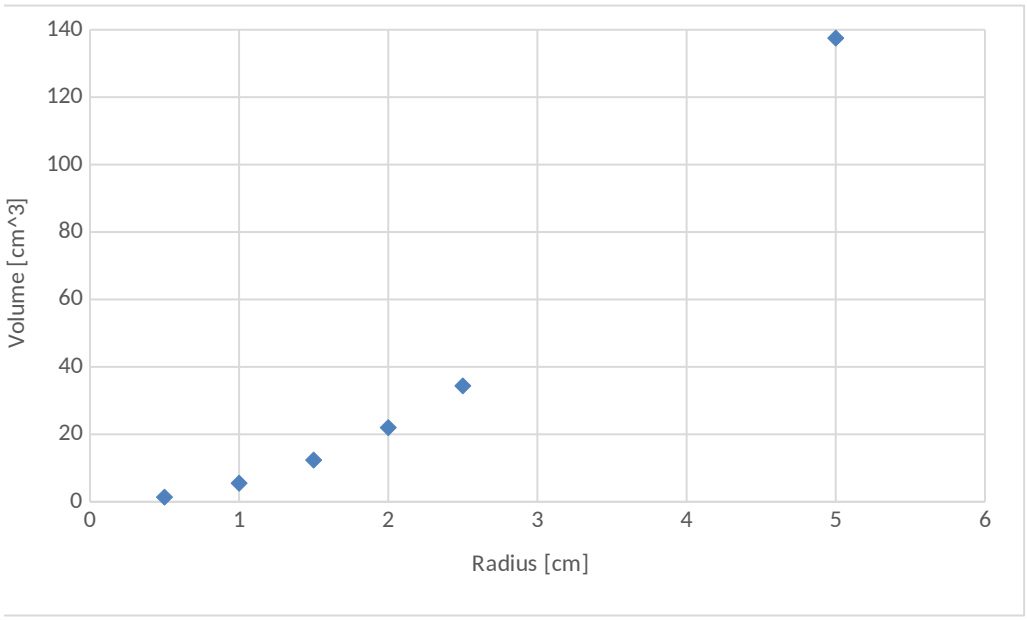
Scatterplo
Once you
Your plot

Cylinder Height [cm]		5.5
Diameter [cm]	**Radius [cm]**	**Cylinder Volume [cm^3]**
1	0.5	1.375
2	1	5.5
3	1.5	12.375
4	2	22
5	2.5	34.375
10	5	137.5

der with height 5.5 cm and the diameters given. (10 points)
ı is the height.
lius and volume. DO NOT simply type numbers into the cells.

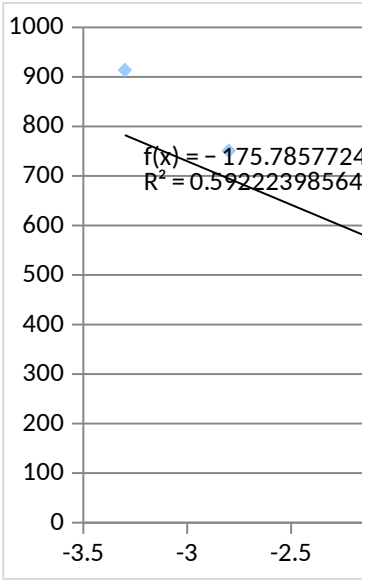
ɔt Instructions
have filled in the chart, create a scatterplot of the data in the space below.
should have the following:

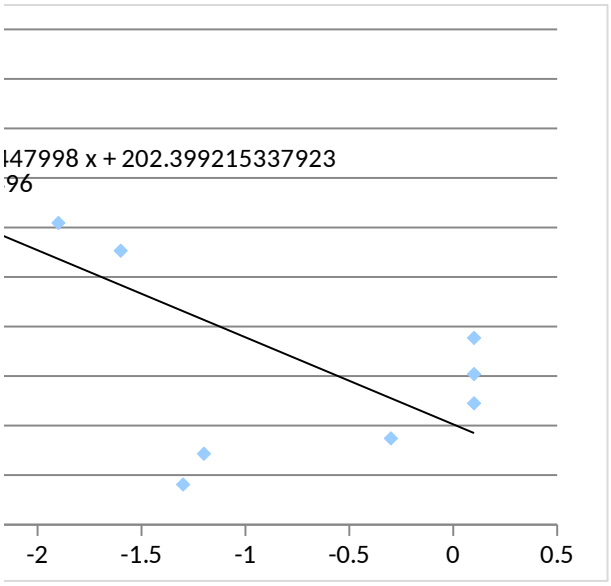
1. Radius on the x axis, volume on the y axis (5 pts)
2. Axis labels with QUANTITY and UNIT (5 pts)



	A	B	C	D	E	F	G	H
1	**Atmospheric Data: Little Rock, AK**							
2								
3	**Height (m)**	**Pressure (hPa)**	**Temperature (°C)**	**Dewpoint (°C)**	**Relative Humidity (%)**		**Question 9: If functions**	
4	81	1021	0	-1.3	91		35	
5	143	1013	3.8	-1.2	70		20	
6	174	1009	4.4	-0.3	72		-5	
7	245	1000	4.4	0.1	74		10	
8	304	992.8	4.4	0.1	74			
9	377	984	4.4	0.1	74			
10	553	963	5.4	-1.6	61			
11	609	956.4	5.3	-1.9	59			
12	751	940	5.2	-2.8	56			
13	914	921.4	3.8	-3.3	60			
14								
15								
16								

Atmospheric Data: Little Rock, AK					
Height (m)	**Pressure (hPa)**	**Temperature (°C)**	**Dewpoint (°C)**	**Relative Humidity (%)**	
81	1021	0	-1.3	91	
143	1013	3.8	-1.2	70	
174	1009	4.4	-0.3	72	
245	1000	4.4	0.1	74	
304	992.8	4.4	0.1	74	
377	984	4.4	0.1	74	
553	963	5.4	-1.6	61	
609	956.4	5.3	-1.9	59	
751	940	5.2	-2.8	56	
914	921.4	3.8	-3.3	60	
935	919	3.6	-3.4	60	
1122	898	2.6	-4.4	60	
1219	887.3	1.7	-5.3	60	
1564	850	-1.5	-8.5	59	
1828	822.2	-2.4	-14.1	41	
1850	820	-2.5	-14.5	39	
2107	794	0.2	-12.8	37	
2133	791.4	0.1	-12.9	37	
2438	761.7	-1	-14	37	
2520	754	-1.3	-14.3	37	
2724	735	0.2	-18.8	22	





pg	1	2	3
	8	8	6
	6	5	5
	4	5	5
	5		4
	6		6
			3
			4
	29	18	33
			100

4

	A	B	C	D	E	F	G	H
1		**Males**			**Females**			
2	Height	Count	Decimal	Percentage	Count	Decimal	Percentage	
3	5'0"	0	0.000	0.0%	1	0.333	33.3%	
4	5'3"	1	0.143	14.3%	2	0.667	66.7%	
5	5'9"	1	0.143	14.3%	0	0.000	0.0%	
6	5'10"	3	0.429	42.9%	0	0.000	0.0%	
7	5'11"	2	0.286	28.6%	0	0.000	0.0%	
8	Total	7	1.000	100.0%	3	1.000	100.0%	
9								
10								
11								
12								

	Males		Females	
Height	Count	Percentage	Count	Percentage
5'2"	0		1	
5'6"	1		3	
5'9"	1		2	
5'10"	3		0	
5'11"	2		0	

points		paper				
	online	pg1	pg2	pg3	total	
		6	8	8	5	
		6	6	5	5	
		8	5		6	
		6	4		3	
		3	6		3	
		3			4	
sum		32	29	13	26	100