



PROTECTED VIEW Be careful—files from the Internet can contain viruses, Unless you need to edit, it's safer

S4 : X ✓ fx

	A	B	C	D	E	F	G	H	I
1	t (min)	V (m3)							
2	0	200							
3	1	279.9603							
4	2	276.1301							
5	3	313.8568							
6	4	345.0154							
7	5	327.898							
8	6	407.3454							
9	7	469.1397							
10	8	463.744							
11	9	506.5898							
12	10	514.7755							
13	11	487.1376							
14	12	560.9507							
15	13	604.2804							
16	14	602.7318							
17	15	651.4676							
18	16	640.5368							
19	17	608.366							
20	18	674.7443							
21	19	699.5835							
22	20	705.6964							
23	21	759.5397							
24	22	733.7031							
25	23	702.3667							
26	24	759.0446							
27	25	765.9524							
28	26	781.9746							

Sheet1

fluiddata

	A	B	C	D	E	F	G
27	25	765.9524					
28	26	781.9746					
29	27	838.9323					
30	28	802.7224					
31	29	776.7944					
32	30	821.4959					
33	31	811.802					
34	32	838.4828					
35	33	895.719					
36	34	853.8532					
37	35	836.9382					
38	36	867.7609					
39	37	843.6303					
40	38	880.3451					
41	39	934.5605					
42	40	891.7318					
43	41	886.3175					
44	42	902.0349					
45	43	866.4215					
46	44	911.3575					
47	45	959.1669					
48	46	919.7929					
49	47	927.1554					
50	48	927.4256					
51	49	883.9308					
52	50	934.332					
53	51	972.6186					
54	52	940.5811					

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	A	B	C	D	E	F	G	H	I	J	K	L
52	50	934.332										
53	51	972.6186										
54	52	940.5811										
55	53	960.7598										
56	54	946.2356										
57	55	898.8904										
58	56	951.3519										
59	57	977.5782										
60	58	955.9814										
61	59	987.8323										
62	60	960.1703										
63	61	913.1657										
64	62	963.9606										
65	63	976.4169										
66	64	967.3902										
67	65	1008.72										
68	66	970.4935										
69	67	927.8845										
70	68	973.3014										
71	69	971.2767										
72	70	975.8421										
73	71	1023.612										
74	72	978.141										
75	73	943.5522										
76	74	980.2212										
77	75	964.0851										
78	76	982.1034										
79	77	1032.697										

Sheet1

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	A	B	C	D	E	F	G	H	I	J	K	L	M
78	76	982.1034											
79	77	1032.697											
80	78	983.8065											
81	79	960.1636											
82	80	985.3475											
83	81	956.5397											
84	82	986.7419											
85	83	1036.269											
86	84	988.0035											
87	85	977.3164											
88	86	989.1452											
89	87	950.0748											
90	88	990.1781											
91	89	1034.797											
92	90	991.1128											
93	91	994.3263											
94	92	991.9585											
95	93	945.8226											
96	94	992.7238											
97	95	1028.956											
98	96	993.4162											
99	97	1010.344											
100	98	994.0427											
101	99	944.5792											
102	100	994.6096											
103	101	1019.626											
104	102	995.1226											
105	103	1024.467											

Sheet1 fluiddata

S4 : X ✓ fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
105	103	1024.467												
106	104	995.5867												
107	105	946.7823												
108	106	996.0067												
109	107	1007.857												
110	108	996.3867												
111	109	1035.849												
112	110	996.7306												
113	111	952.5073												
114	112	997.0417												
115	113	994.8122												
116	114	997.3232												
117	115	1043.787												
118	116	997.578												
119	117	961.4843												
120	118	997.8084												
121	119	981.7003												
122	120	998.017												
123	121	1047.803												
124	122	998.2057												
125	123	973.1357												
126	124	998.3765												
127	125	969.69												
128	126	998.531												
129	127	1047.688												
130	128	998.6708												
131	129	986.6354												
132	130	998.7972												

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
132	130	998.7972												
133	131	959.8302												
134	132	998.9117												
135	133	1043.536												
136	134	999.0153												
137	135	1000.984												
138	136	999.109												
139	137	952.9749												
140	138	999.1938												
141	139	1035.738												
142	140	999.2705												
143	141	1015.094												
144	142	999.3399												
145	143	949.7208												
146	144	999.4027												
147	145	1024.963												
148	146	999.4596												
149	147	1027.883												
150	148	999.511												
151	149	950.3645												
152	150	999.5575												
153	151	1012.102												
154	152	999.5996												
155	153	1038.363												
156	154	999.6377												
157	155	954.8828												
158	156	999.6722												
159	157	998.2056												

Sheet1 fluiddata

S4 : X ✓ fx

	A	B	C	D	E	F	G	H	I	J	K	L	M
158	156	999.6722											
159	157	998.2056											
160	158	999.7034											
161	159	1045.722											
162	160	999.7316											
163	161	962.9361											
164	162	999.7572											
165	163	984.3985											
166	164	999.7803											
167	165	1049.39											
168	166	999.8012											
169	167	973.8983											
170	168	999.8201											
171	169	971.7947											
172	170	999.8372											
173	171	1049.089											
174	172	999.8527											
175	173	986.9075											
176	174	999.8667											
177	175	961.4085											
178	176	999.8794											
179	177	1044.851											
180	178	999.8909											
181	179	1000.936											
182	180	999.9013											
183	181	954.0748											
184	182	999.9107											
185	183	1037.02											

S4 : X ✓ fx

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
185	183	1037.02												
186	184	999.9192												
187	185	1014.872												
188	186	999.9269												
189	187	950.3834												
190	188	999.9338												
191	189	1026.226												
192	190	999.9401												
193	191	1027.61												
194	192	999.9458												
195	193	950.6326												
196	194	999.951												
197	195	1013.332												
198	196	999.9556												
199	197	1038.139												
200	198	999.9599												
201	199	954.8056												
202	200	999.9637												
203	201	999.3675												
204	202	999.9671												
205	203	1045.622												
206	204	999.9703												
207	205	962.5722												
208	206	999.9731												
209	207	985.448												
210	208	999.9757												
211	209	1049.466												
212	210	999.978												

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	A	B	C	D	E	F	G	H	I	J	K	L	M
2	210	999.978											
3	211	973.3154											
4	212	999.9801											
5	213	972.6833											
6	214	999.982											
7	215	1049.366											
8	216	999.9837											
9	217	986.1808											
0	218	999.9852											
1	219	962.0913											
2	220	999.9866											
3	221	1045.33											
4	222	999.9879											
5	223	1000.144											
6	224	999.9891											
7	225	954.5168											
8	226	999.9901											
9	227	1037.681											
0	228	999.991											
1	229	1014.094											
2	230	999.9919											
3	231	950.5636											
4	232	999.9927											
5	233	1027.029											
6	234	999.9934											
7	235	1026.92											
8	236	999.994											
9	237	950.5472											

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S4 : X ✓ fx

	A	B	C	D	E	F	G	H	I	J	K	L	M
232	230	999.9919											
233	231	950.5636											
234	232	999.9927											
235	233	1027.029											
236	234	999.9934											
237	235	1026.92											
238	236	999.994											
239	237	950.5472											
240	238	999.9946											
241	239	1014.223											
242	240	999.9951											
243	241	1037.601											
244	242	999.9956											
245	243	954.4692											
246	244	999.996											
247	245	1000.282											
248	246	999.9964											
249	247	1045.285											
250	248	999.9967											
251	249	962.0175											
252	250	999.997											
253													
254													
255													
256													
257													
258													
259													

Sheet1 fluiddata

itor - C:\Users\User\Desktop\petrel\AsalemJoshuaAlaboquiz.m

AsalemJoshuaAlaboquiz.m ✕ +

```
commandwindow
clear
clc
close all
format short g
mdata=xlsread('onlinequizdata','fluiddata')
x=mdata(1:2:250,1)
y=mdata(1:2:250,2)
plot(x,y)
grid on
grid minor
```


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petrel ▶

Editor - C:\Users\User\Desktop\petrel\AsalemJoshuaAlaboquiz.m

```
AsalemJoshuaAlaboquiz.m
1 - commandwindow
2 - clear
3 - clc
4 - close all
5 - format short g
6 - mdata=xlsread('onlinequizzdata','fluiddata')
7 - x=mdata(1:2:250,1)
8 - y=mdata(1:2:250,2)
9 - plot(x,y)
10 - grid on
11 - grid minor
12
```

Figure 1

Command Window

New to MATLAB? See resources for [Getting Started.](#)

9	506.59
10	514.78
11	487.14
12	560.95
13	604.28
14	602.73
15	651.47
16	640.54

10 ° P
20 °

ASALEM ALABD JOSHUA
18/ENGG06/007
MECHANICAL ENGINEERING
ENG 282

- 1) T_1 of thermometer = 10°C
 T_2 of thermometer = 20°C
Time taken = 5 min = 300 sec
 $\Delta T = T_2 - T_1 = (20 - 10)^\circ\text{C} = 10^\circ\text{C}$

Find $T = 24.9^\circ\text{C}$, $\Delta T_c = 24.9 - 10 = 14.9^\circ\text{C}$

If $10^\circ\text{C} \Rightarrow 300\text{sec}$

then

$$14.9^\circ\text{C} \Rightarrow \frac{14.9 \times 300}{10} = 2C$$

$$10^\circ\text{C} = 4470$$

$$2C = 447$$

$$2C = 447 \text{ seconds}$$

$$\therefore 2C = 7 \text{ mins } 27 \text{ seconds}$$

$T_0 := 10$

$T_1 := 20$

$T_2 := 24.9$

$T_w := T_2 - T_0$

$T = 14.9$

$x := 300\text{sec}$

$x_2 := \frac{(T \cdot x)}{T_0}$

$x_2 = 7.45 \text{ min}$

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MECHANICAL ENGINEERING

