

"HW#16 ACTIVITY"

"1 - CREATE AN ARRAY TABLE"

```
f$ = 'steam_iapws'
P[1] = 40[kPa]
T[1] = T_sat(f$, P=P[1])
v[1] = Volume(f$, T=T[1], x=0)
```

```
T[2] = 700[C]
P[2] = 10[MPa]*convert(MPa,kPa)
v[2] = Volume(f$, T=T[2], P=P[2])
```

"2 - CREATE A P-v PROPERTY PLOT"  
 "Show Isotherms of 50 C, 100 C, 250 C, and 700 C."  
 "Do not show lines of constant entropy."  
 "Show lines of constant quality."

"3 - CREATE AN OVERLAY PLOT"  
 "Superimpose your two P[i] versus v[i] points."  
 "Use colored symbols. DO NOT connect w/lines."

"4 - LABEL YOUR OVERLAY PLOT"  
 "Identify the Saturated Liquid point."  
 "Identify the Superheated Vapor point."

Arrays Table: Main

	P <sub>i</sub> [kPa]	T <sub>i</sub> [C]	v <sub>i</sub> [m <sup>3</sup> /kg]
1	40	75.86	0.001026
2	10000	700	0.0436

