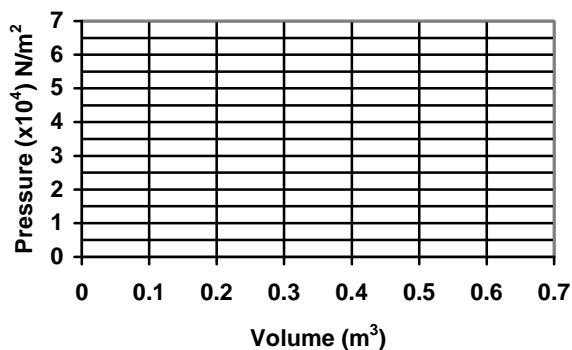
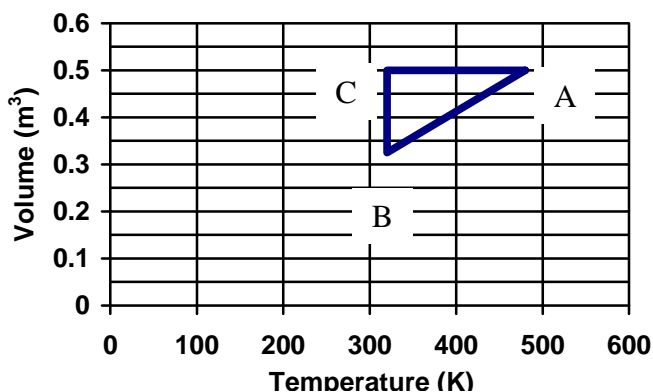


8 moles of ideal diatomic gas are used in a process that goes from A to B to C. $T_A=480\text{K}$, $T_B=320\text{K}$. Complete the p-V diagram on the right.



Complete the charts for Process A to B.

P	V	T	U_i	+	Q	-	W	=	U_f
					_____		_____		_____
I F	I F	I F							

Complete the charts for Process B to C.

P	V	T	U_i	+	Q	-	W	=	U_f
					_____		_____		_____
I F	I F	I F							

Complete the charts for Process C to A.

P	V	T	U_i	+	Q	-	W	=	U_f
					_____		_____		_____
I F	I F	I F							

What kind of process is C to A? _____

What was the entropy change of the gas from B to C? _____