		Sign Sign Sign Sign Sign Sign Sign Sign
5.	Calculate the numb	er of moles of CO ₂ (g) initially placed in the container.
		er of moles of CO ₂ (g) initially placed in the container.
6.	Calculate (Total product of the part of th	essure $= P_{co2} + P_{CO}$) tial pressure of $CO(g)$, and lue of the equilibrium constant, K_P .
7.	gases at equilibrium	atalyst were placed in the reaction vessel, would the final total pressure of the n be greater than, less than, or equal to the final total pressure of the gases at the catalyst? Justify your answer.
		ving the same reaction, a rigid 2.00 L container initially contains 10.0 g of g), each at a partial pressure of 2.00 atm at 1,160 K.
8.	Is the reaction vess	tel at equilibrium? If so, justify your answer. If not which way will it shift to
	K	P(0) 27 - 2 - 9(5)
9.	If at equilibrium the stress?	e following stress are applied how will the reaction shift to overcome the
	a.	CO ₂ (g) is added
	ь.	Solid C added
	c.	Contents are pumped into an 1L ridged container
	d.	The reaction is cooled to 1000K.
	e.	A catalyst is added.
	f.	Helium is pumped into the container doubling the total pressure
		E+C)+C(S)+(C)

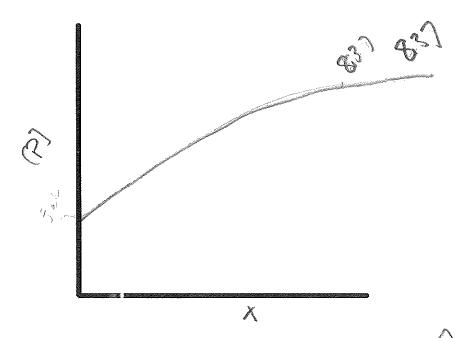
Energy + C(s) + $CO_2(g) \leftrightarrow 2 CO(g)$

Solid carbon and carbon dioxide gas at 1,160 K were placed in a rigid 2.00 L container, and the reaction represented above occurred. As the reaction proceeded, the total pressure in the container was monitored. When equilibrium was reached, there was still some C(s) remaining in the container. Results are recorded in the table below.

$$(PV = nRT R = .0821)$$

Time(hours)	Total pressure of gasses @1160K
0	5.00 (
2	6.26
4	7.09
6	7.75
8	8.37
10	8.37
12	?

1. On the chart below, sketch out the relative pressures of the contents of the reaction over the course of 12 hours. Label the axis.



- 3. Why did the pressure stop changing at 10 hours?

 4. Write the expression for the