## Answer to Question #62461, Chemistry / General Chemistry

what is the partial pressure of carbon monoxide gas in a sealed vessel that has a total pressure of 2.68 atm and partial pressures of 1.56 atm for oxygen and 0.65 atm for carbon dioxide?

## Answer:

If system contain only  $CO+O_2+CO_2$ , so

$$p_{total} = p_{CO} + p_{O_2} + p_{CO_2}$$
  
 $2.63 \ atm = p_{CO} + 1.56 \ atm + 0.65 \ atm$   
 $p_{CO} = 2.63 \ atm - 1.56 \ atm - 0.65 \ atm = 0.42 \ atm$ 

$$p_{CO} = 0.42 atm$$

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