Redox Reactions - Practice Problems - Determining Oxidation Numbers

1. Determine the oxidation number of each element in the following compounds.

		Oxidation Numbers for each Element					
a.	$SnCl_4$	Sn _____	Cl _____				
b.	Ca_3P_2	Ca _____	P _____				
c.	SnO	Sn _____	O _____				
d.	Ag_2S	Ag _____	S _____				
e.	HI	H _____	I _____				
f.	N_2H_4	N _____	H _____				
g.	Al_2O_3	Al _____	O _____				
h.	S_8	S _____					
i.	HNO_2	H _____	N _____	O _____			
j.	O_2	O _____					
k.	H_3O^+	H _____	O _____				
l.	ClO_3^-	Cl _____	O _____				
m.	$S_2O_3^{2-}$	S _____	O _____				
n.	$KMnO_4$	K _____	Mn _____	O _____			
o.	$(NH_4)_2SO_4$	N _____	H _____	S _____	O _____		

2. Determine the oxidation number of carbon in each of the following compounds:

a. methane, CH_4

b. formaldehyde, CH_2O

c. carbon monoxide, CO

d. carbon dioxide, CO_2