

# Organometallic Chemistry - 4571

## ANSWER KEY

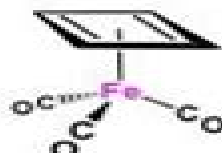
### Homework # 1: Due: February 8, 2007

Check the box to the right if you want your graded homework to be placed out in the public rack outside Prof. Stanley's office. Otherwise you will have to pick up your homework from Prof. Stanley in person:

☐

1. (38 pts) Sketch out a structure showing the geometry about the metal center as accurately as possible and clearly show the electron counting for the complexes below. Phosphine ligand abbreviations are defined in your notes (phosphine ligand section). Most molecules (some simplified) are from *Organometallics*, 2003, # 1 & 2, from the Chem Library or on-line at the Library E-Journal site (only accessible from a campus computer).

a)  $\text{Fe}(\eta^4\text{-C}_4\text{H}_4)(\text{CO})_3$  (cover molecule)



Fe(0)	d8
$\eta^4\text{-C}_4\text{H}_4$	4e-
3 CO	6e-
Total	18e-

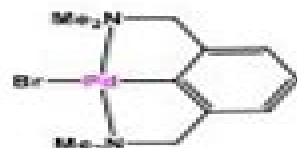
$\text{C}_4\text{H}_4$  is cyclobutadiene, a neutral 4e- donor

b)  $\text{cis-}[\text{CpZrCl}_2(\text{NMe}_2)_2]^-$



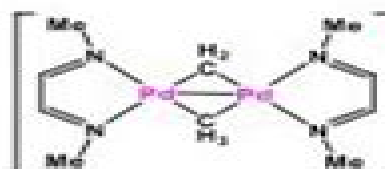
Zr(+4)	d0
Cp-	6e-
2 NMe2-	8e-
2 Cl-	4e-
Total	18e-

c)  $\text{Pd}(\text{NCN})\text{Br}$  (NCN ligand shown below)



Pd(+2)	d8
NCN-	6e-
Br-	2e-
Total	16e-

d)  $[\text{Pd}_2(\mu\text{-CH}_3)(\mu\text{-CH}_2)(\text{N-N})_2]^+$  (one N-N ligand shown below)



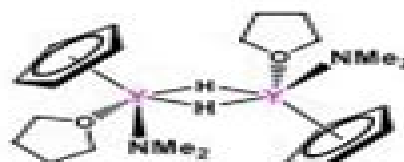
Pd(+2)	d8
N-N	4e-
$\mu\text{-CH}_3^{2-}$	2e-
$\mu\text{-CH}_3^-$	1e-
Pd-Pd	1e-
Total	16e-

e)  $\text{CpRuCl}(\text{Me}_2\text{NCH}_2\text{CH}_2\text{NMe}_2)$



Ru(+2)	d6
Cp-	6e-
2 NR3	4e-
Cl-	2e-
Total	18e-

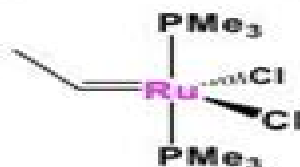
f)  $\text{Cp}_2\text{Y}_2(\mu\text{-H})_2(\text{NR}_2)_2(\text{THF})_2$



Y(+3)	d0
Cp-	6e-
2 $\mu\text{-H}^-$	2e-
THF	2e-
NMe2-	4e-
Total	14e-

No Y-Y bonding due to d<sup>0</sup> electron count!

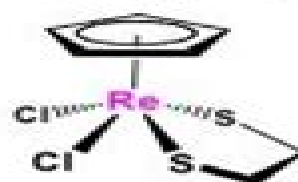
g)  $\text{Ru}(\text{-CHR})\text{Cl}_2(\text{PMe}_3)_2$



Ru(+4)	d4
$\text{-CHR}^{2-}$	4e-
2 PR3	4e-
2 Cl-	4e-
Total	16e-

Also OK to count the  $\text{-CHR}$  group as a neutral carbene that is a 2e- donor - you will still get the same total e-count

h)  $\text{CpReCl}_2(\eta^2\text{-SCH}_2\text{CH}_2\text{S})$



Re(+5)	d2
Cp-	6e-
2 SR-	4e-
2 Cl-	4e-
Total	16e-

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**Padhraic Smyth**



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was recorded as a tribute by him to jeff buckley after his death in 1997 this song by wainwright was included in the album  
shrek music from the original motion picture

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