

Chapter 19 — Problems 2, 4, 6, 24

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2. (a)

$$\begin{aligned}(en) &= 0 \\ \text{SCN} &= -1 \\ \text{OH} &= -1\end{aligned}\tag{1}$$

(b)

$$\begin{aligned}-1 &= O_{\text{Cd}} + 2(-1) + 2(-1) \\ O_{\text{Cd}} &= +3\end{aligned}\tag{2}$$

(c) $\text{Mg}[\text{Cd}(\text{en})(\text{SCN})_2(\text{OH})_2]$

4. (a) i. $\text{Pt}(\text{NH}_3)_2(\text{C}_2\text{O}_4)$

ii. Charge = 0

(b) i. $\text{Pt}(\text{NH}_3)_2(\text{SCN})\text{Br}$

ii. Charge = 0

(c) i. $\text{Pt}(\text{en})(\text{NO}_2)_2$

ii. Charge = 0

6. (a) 6

(b) 4

(c) 6

(d) 2



