ClO4- + SnO2-- = ClO3- + SnO3-

+7 +2 +5 +4

+2 e-

-2 e-

H+ / H2O in campo ACIDO

**2** ClO4-- + **3** SO3-- + 5 H2O = **2** Cr+++ + **3** SO4-- + 10 OH-

+6 +4 +3 +6

(+3 e-) x 2

(-2 e-) x 2

OH- / H2O

4- 6- = 10-

8 + 9 + 5 = 22

12 + 10 = 22

6+ 6- = 0 cariche -

x con + 10 OH

**2** As + **5** ClO- + 6 OH- = **2** AsO4--- + **5** Cl- + 3 H2O

0 +1 +5 -1

(-5 e-) x2

(+2 e-) x5

5 + 6 = 11

8 + 3 = 11

6- + 5 = 11-

Δ = 6

MnO4- + NO2 + 2 OH- = NO3- + MnO4-- + H2O

+7 +4 +5 +6

+1 e-

-1 e-

4 + 2 + 2 = 8

3 + 4 + 1 = 8

**4** Zn + NO3- + 7 OH- = **4** ZnO2-- + NH3 + 2 H2O

0 +5 +2 -3

(-2 e-) x 4

+8 e-

7 + 3 = 10

8 + 2 = 10

**2** CrO4-- + **3** S-- + 4 H2O = **3** S + **2** CrO2- + 8 OH-

+6 -2 0 +3

(+3 e-) x 2

(-2 e-) x 3

8 + 4 = 12

4 + 8 = 12

**4** MnO4- + **3** C + 2 H2O = **3** CO2 + **4** MnO2 + 4 OH-

+7 0 +4 +4

(+3 e-) x 4

(-4 e-) x 3

16 + 2 = 18

6 + 8 + 4 = 18