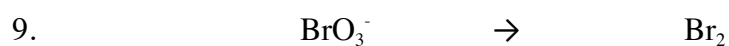
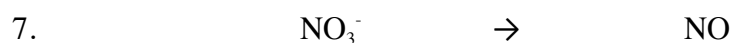
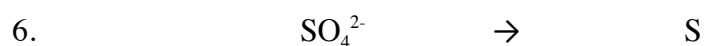
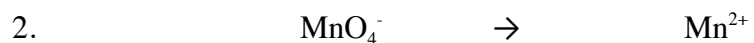
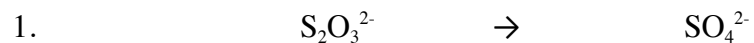


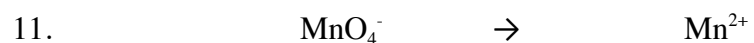
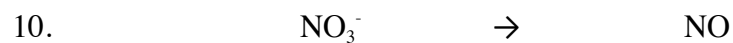
Name \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

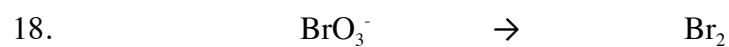
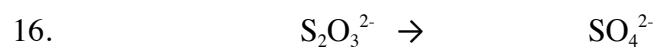
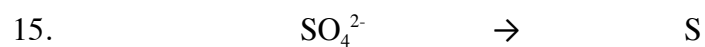
Chemistry 12  
**BALANCING REDOX HALF-REACTIONS**

Balance each of the following half-cell reactions in ACIDIC solution. Also, state whether the reaction is oxidation or reduction.

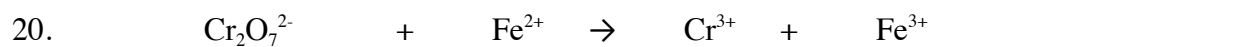
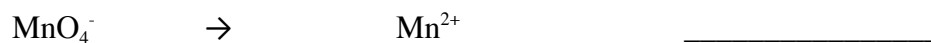
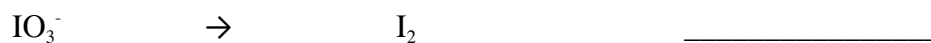
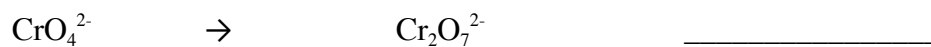
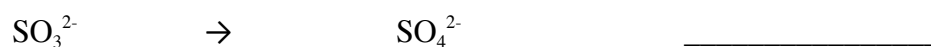


Balance each of the following half-cell reactions in BASIC solution.





19. Determine if each of the following changes is oxidation, reduction or neither.



Substance oxidized \_\_\_\_\_ Substance reduced \_\_\_\_\_

Oxidizing agent \_\_\_\_\_ Reducing agent \_\_\_\_\_