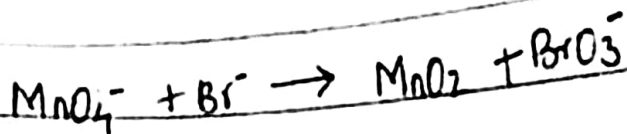
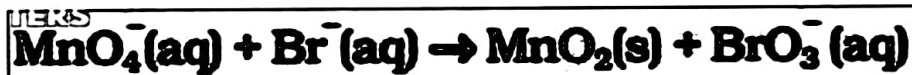


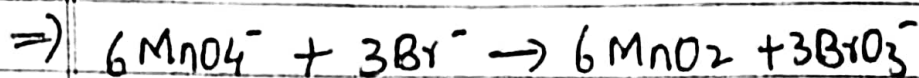
ASSIGNMENT

Q, Balance the given redox reactions using oxidation number method in basic medium.

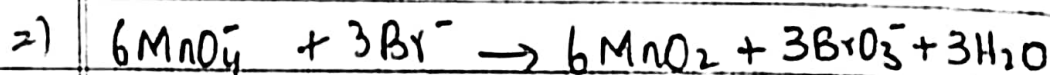


oxidation no. of Mn changes from +7 to +4
or " " " Br " " -1 to +5

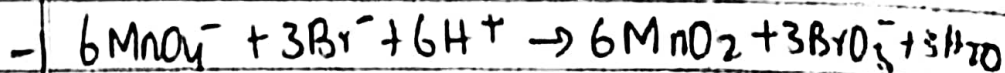
multiply MnO_4^- and MnO_2 with $(5 - (-1)) = 6$
" Br^- " BrO_3^- with $(7 - 4) = 3$



To balance O atoms add 3H₂O molecules on RHS



To balance H atoms, add 6H⁺ ions on LHS



Since reaction is taking in basic medium
add 6OH⁻ ions on either side

