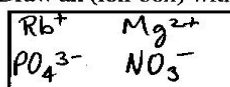


19. An aqueous solution of rubidium phosphate ( $\text{Rb}_3\text{PO}_4$ ) is mixed with an aqueous solution of magnesium nitrate and a precipitate forms.

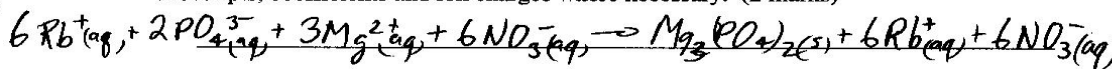
- a) Draw an (ion-box) with the four ions involved with this reaction. (1 mark)



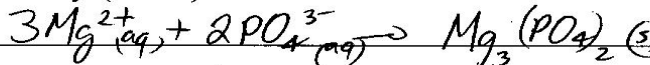
- b) Write a **balanced formula equation** for this reaction. Include all subscripts and coefficients. (2 marks)



- c) Write a balanced, **complete (total) ionic equation** for this reaction. Include all subscripts, coefficients and ion charges where necessary. (2 marks)



- d) Write a **net ionic equation** for this reaction. Include all subscripts, coefficients and ion charges where necessary. (2 marks)



7
7