



$$\begin{aligned}
 \text{largest b ion} &= (n+H)^+ - (H + \text{HN} \begin{array}{c} \text{R} \\ | \\ \text{C} \\ || \\ \text{O} \end{array} + \text{OH}) \\
 &= (n+H)^+ - (Rn + 18)
 \end{aligned}$$

$$\begin{aligned}
 \text{largest y ion} &= (n+H)^+ - (\text{HN} \begin{array}{c} \text{R} \\ | \\ \text{C} \\ || \\ \text{O} \end{array}) \\
 &= (n+H)^+ - Rn
 \end{aligned}$$

$$\begin{aligned} \text{largest } z \text{ ion} &= (n+H)^+ - \left( H + \text{HN} \begin{array}{c} \text{R} \\ | \\ \text{C} \\ || \\ \text{O} \end{array} + \text{NH} \right) \\ &= (n+H)^+ - (Rn + 16) \end{aligned}$$

$$\begin{aligned} \text{largest } c \text{ ion} &= (n+H)^+ - \left( \text{HN} \begin{array}{c} \text{R} \\ | \\ \text{C} \\ || \\ \text{O} \end{array} + \text{OH} - \text{NH}_2 \right) \\ &= (n+H)^+ - (Rn + 1) \end{aligned}$$