GIVEN

$$\binom{n}{r} + \binom{n}{r+1} = \binom{n+1}{r+1}$$

Write the following in form $\binom{a}{b}$

* $\binom{16}{4} + \binom{16}{5}$

$n = 16 \quad n+1 = 17$

$r = 4 \quad r+1 = 5$

$\binom{17}{5}$ ANSWER

* $\binom{10}{4} + \binom{10}{5}$

$= \binom{11}{5}$ $\quad n=10 \quad n+1 = 11$

$r=4 \quad r+1 = 5$

* $\binom{14}{10} + \binom{14}{11} + \binom{15}{12}$

$= \binom{15}{11} + \binom{15}{12}$

$= \binom{16}{12}$ ANSWER

* $\binom{20}{15} + \binom{20}{16} + \binom{21}{17} + \binom{22}{18}$

$= \binom{21}{16} + \binom{21}{17} + \binom{22}{18}$

$= \binom{22}{17} + \binom{22}{18}$

$= \binom{23}{18}$ ANSWER

* $\binom{91}{13} - \binom{90}{13}$

$\binom{n+1}{r+1} - \binom{n}{r+1} = \binom{n}{r}$

ANSWER $= \binom{90}{12}$