Finding LCM. Name of the Game is

"The Biggest Piece of Each COLUMN"

Find all the common denominator for the numbers and the biggest pieces of the variable in each term. Note: Same bases with different exponents go in the same column. For example suppose we have the following:

1. $3x^2y^5 -$ 3 x^2 y^5
   $7y^6z -$ 7 y^6 z
   $2\ xyx^7$ 2 x y z^7
   42 x^2 y^6 z^7 == $42x^2y^6z^7$

2. $(x + 1)(y - 2)-$ $(x + 1)$ $(y - 2)$
   $(x + 1)(y - 4)-$ $(x + 1)$ $(y - 4)$
   $(x - 1)(y - 4) -$ $(x - 1)$ $(y – 4)$
   $(x – 1$ $(x + 1)$ $(y - 2)$ $(y - 4) = (x – 1)(x + 1)(y - 2)(y – 4)$

3. $(x + 1)^2(y - 2)-$ $(x + 1)^2$ $(y - 2)$
   $(x + 1)^4(y - 4)-$ $(x + 1)^4$ $(y - 4)$
   $(x - 1)(y - 4) -$ $(x - 1)$ $(y – 4)$
   $(x – 1$ $(x + 1)^4$ $(y - 2)$ $(y - 4) = (x – 1)(x + 1)^4(y - 2)(y – 4)$

4. $(x^2 - 4) = (x + 2)(x - 2) =$ $(x + 2)$ $(x - 2)$
   $x^2-2x -8 = (x + 2)(x - 4) =$ $(x + 2)$ $(y - 4)$
   $(x +2)$ $(x - 2)$ $(y - 4) = (x +2)(x – 2)(y – 4)$