In[16]:= **byfirsts[2]**

Out[16]= $\{\{\{0, 0\}, \{0, 1\}\}\}$

In[17]:= **byfirsts[3]**

Out[17]= $\left\{\left\{\left\{-1, 2+\frac{1}{y}\right\}, \{-1, 2\}, \left\{-1, 2+\frac{1}{y}+y\right\}, \{-1, 2+y\}\right\}, \{\{0, 0\}, \{0, 1\}, \{0, 2\}\}\right\}$

In[18]:= **byfirsts[4]**

Out[18]= $\left\{\left\{\left\{-2, 3+\frac{2}{y}\right\}, \left\{-2, 3+\frac{1}{y}\right\}, \{-2, 3\}, \left\{-2, 3+\frac{2}{y}+y\right\},\right.\right.$
$\left\{-2, 3+\frac{1}{y}+y\right\}, \{-2, 3+y\}, \left\{-2, 3+\frac{2}{y}+2y\right\}, \left\{-2, 3+\frac{1}{y}+2y\right\}, \{-2, 3+2y\}\}$,
$\left\{\left\{-1, 2+\frac{1}{y}\right\}, \{-1, 2\}, \left\{-1, 3+\frac{1}{y}\right\}, \{-1, 3\}, \left\{-1, 2+\frac{1}{y}+y\right\}, \{-1, 2+y\},\right.$
$\left\{-1, 3+\frac{1}{y}+y\right\}, \{-1, 3+y\}\}, \{\{0, 0\}, \{0, 1\}, \{0, 2\}, \{0, 3\}\}$,
$\left\{\left\{-2-\frac{1}{x}, 3+\frac{1}{y^2}+\frac{2}{y}\right\}, \left\{-2-\frac{1}{x}, 3+\frac{2}{y}\right\}, \left\{-2-\frac{1}{x}, 3+\frac{1}{y^2}+\frac{2}{y}+y\right\},\right.$
$\left\{-2-\frac{1}{x}, 3+\frac{2}{y}+y\right\}, \left\{-2-\frac{1}{x}, 3+\frac{1}{y^2}+\frac{2}{y}+2y\right\}, \left\{-2-\frac{1}{x}, 3+\frac{2}{y}+2y\right\}\}$,
$\left\{\left\{-2-x, 3+\frac{2}{y}+2y\right\}, \left\{-2-x, 3+\frac{1}{y}+2y\right\}, \{-2-x, 3+2y\},\right.$
$\left\{-2-x, 3+\frac{2}{y}+2y+y^2\right\}, \left\{-2-x, 3+\frac{1}{y}+2y+y^2\right\}, \{-2-x, 3+2y+y^2\}\}$,
$\left\{\left\{-2-\frac{1}{x}-x, 4+\frac{2}{y}+2y\right\}, \left\{-2-\frac{1}{x}-x, 4+\frac{1}{y^2}+\frac{2}{y}+2y\right\}, \left\{-2-\frac{1}{x}-x, 3+\frac{1}{y^2}+\frac{2}{y}+2y\right\},\right.$
$\left\{-2-\frac{1}{x}-x, 3+\frac{2}{y}+2y\right\}, \left\{-2-\frac{1}{x}-x, 3+\frac{1}{y^2}+\frac{2}{y}+2y+y^2\right\}, \left\{-2-\frac{1}{x}-x, 3+\frac{2}{y}+2y+y^2\right\},$
$\left.\left.\left\{-2-\frac{1}{x}-x, 4+\frac{2}{y}+2y+y^2\right\}, \left\{-2-\frac{1}{x}-x, 4+\frac{1}{y^2}+\frac{2}{y}+2y+y^2\right\}\right\}\right\}$

In[19]:= **byfirsts[5]**

Out[19]= $\left\{\left\{\left\{-3, 4+\frac{2}{y}\right\}, \left\{-3, 4+\frac{3}{y}\right\}, \left\{-3, 4+\frac{1}{y}\right\}, \{-3, 4\}, \left\{-3, 4+\frac{2}{y}+y\right\}, \left\{-3, 4+\frac{3}{y}+y\right\},\right.\right.$
$\left\{-3, 4+\frac{1}{y}+y\right\}, \{-3, 4+y\}, \left\{-3, 4+\frac{2}{y}+2y\right\}, \left\{-3, 4+\frac{3}{y}+2y\right\}, \left\{-3, 4+\frac{1}{y}+2y\right\},$
$\{-3, 4+2y\}, \left\{-3, 4+\frac{2}{y}+3y\right\}, \left\{-3, 4+\frac{3}{y}+3y\right\}, \left\{-3, 4+\frac{1}{y}+3y\right\}, \{-3, 4+3y\}\}$,
$\left\{\left\{-2, 3+\frac{2}{y}\right\}, \left\{-2, 3+\frac{1}{y}\right\}, \{-2, 3\}, \left\{-2, 4+\frac{2}{y}\right\}, \left\{-2, 4+\frac{1}{y}\right\}, \{-2, 4\}, \left\{-2, 3+\frac{2}{y}+y\right\},\right.$
$\left\{-2, 3+\frac{1}{y}+y\right\}, \{-2, 3+y\}, \left\{-2, 4+\frac{2}{y}+y\right\}, \left\{-2, 4+\frac{1}{y}+y\right\}, \{-2, 4+y\}, \left\{-2, 4+\frac{2}{y}+2y\right\},$
$\left\{-2, 4+\frac{1}{y}+2y\right\}, \{-2, 4+2y\}, \left\{-2, 3+\frac{2}{y}+2y\right\}, \left\{-2, 3+\frac{1}{y}+2y\right\}, \{-2, 3+2y\}\}$,
$\left\{\left\{-1, 2+\frac{1}{y}\right\}, \{-1, 2\}, \left\{-1, 3+\frac{1}{y}\right\}, \{-1, 3\}, \left\{-1, 4+\frac{1}{y}\right\}, \{-1, 4\}, \left\{-1, 2+\frac{1}{y}+y\right\},\right.$
$\{-1, 2+y\}, \left\{-1, 3+\frac{1}{y}+y\right\}, \{-1, 3+y\}, \left\{-1, 4+\frac{1}{y}+y\right\}, \{-1, 4+y\}\}$,
$\{\{0, 0\}, \{0, 1\}, \{0, 2\}, \{0, 3\}, \{0, 4\}\}$,
$\left\{\left\{-3-\frac{2}{x}, 4+\frac{2}{y^2}+\frac{3}{y}\right\}, \left\{-3-\frac{2}{x}, 4+\frac{3}{y}\right\}, \left\{-3-\frac{2}{x}, 4+\frac{1}{y^2}+\frac{3}{y}\right\},\right.$
$\left\{-3-\frac{2}{x}, 4+\frac{2}{y^2}+\frac{3}{y}+y\right\}, \left\{-3-\frac{2}{x}, 4+\frac{3}{y}+y\right\}, \left\{-3-\frac{2}{x}, 4+\frac{1}{y^2}+\frac{3}{y}+y\right\},$

$$\left\{-3-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{2}{x},\ 4+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{2}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}+2\,y\right\},$$
$$\left\{-3-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x},\ 4+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}+y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}+2\,y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x},\ 4+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x},\ 4+\frac{2}{y}\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{3}{y}\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}\right\},$$
$$\left\{-3-\frac{1}{x},\ 4+\frac{2}{y}+y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{3}{y}+y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}+y\right\},$$
$$\left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}+y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{3}{y}+2\,y\right\},$$
$$\left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{2}{y}+3\,y\right\},$$
$$\left\{-3-\frac{1}{x},\ 4+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}+3\,y\right\}\Big\},$$
$$\Big\{\left\{-2-\frac{1}{x},\ 3+\frac{1}{y^2}+\frac{2}{y}\right\},\ \left\{-2-\frac{1}{x},\ 3+\frac{2}{y}\right\},\ \left\{-2-\frac{1}{x},\ 4+\frac{2}{y}\right\},$$
$$\left\{-2-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}\right\},\ \left\{-2-\frac{1}{x},\ 3+\frac{1}{y^2}+\frac{2}{y}+y\right\},\ \left\{-2-\frac{1}{x},\ 3+\frac{2}{y}+y\right\},$$
$$\left\{-2-\frac{1}{x},\ 4+\frac{2}{y}+y\right\},\ \left\{-2-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}+y\right\},\ \left\{-2-\frac{1}{x},\ 4+\frac{2}{y}+2\,y\right\},$$
$$\left\{-2-\frac{1}{x},\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x},\ 3+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x},\ 3+\frac{2}{y}+2\,y\right\}\Big\},$$
$$\Big\{\left\{-3-2\,x,\ 4+\frac{2}{y}+3\,y\right\},\ \left\{-3-2\,x,\ 4+\frac{3}{y}+3\,y\right\},\ \left\{-3-2\,x,\ 4+\frac{1}{y}+3\,y\right\},$$
$$\{-3-2\,x,\ 4+3\,y\},\ \left\{-3-2\,x,\ 4+\frac{2}{y}+3\,y+y^2\right\},\ \left\{-3-2\,x,\ 4+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-3-2\,x,\ 4+\frac{1}{y}+3\,y+y^2\right\},\ \{-3-2\,x,\ 4+3\,y+y^2\},\ \left\{-3-2\,x,\ 4+\frac{2}{y}+3\,y+2\,y^2\right\},$$
$$\left\{-3-2\,x,\ 4+\frac{3}{y}+3\,y+2\,y^2\right\},\ \left\{-3-2\,x,\ 4+\frac{1}{y}+3\,y+2\,y^2\right\},\ \{-3-2\,x,\ 4+3\,y+2\,y^2\}\Big\},$$
$$\Big\{\left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{3}{y}+3\,y\right\},\ \left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},$$
$$\left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{3}{y}+3\,y+2\,y^2\right\},$$
$$\left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3\,y+2\,y^2\right\},\ \left\{-4-\frac{2}{x}-2\,x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3\,y+2\,y^2\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{2}{x}-2\,x,\ 6+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},$$
$$\left\{-3-\frac{2}{x}-2\,x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 4+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},$$
$$\left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3\,y\right\},$$
$$\left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2\,x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{2}{x}-2\,x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},$$

$$\left\{-3-\frac{2}{x}-2x,\ 4+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 6+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 4+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 5+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 6+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\}\Big\},$$
$$\Big\{\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{4}{y}+3y\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+3y\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{4}{y}+3y+y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+3y+y^2\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x}-2x,\ 4+\frac{2}{y}+3y\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{2}{y}+3y\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 5+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{2}{y}+3y\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{2}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 5+\frac{2}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{2}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 4+\frac{2}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{3}{y}+3y+y^2\right\},$$

$$\left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{2}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 4+\frac{2}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 4+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x,\ 5+\frac{2}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x,\ 5+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2\right\}\Big\},$$
$$\Big\{\left\{-3-x,\ 4+\frac{2}{y}+2y\right\},\ \left\{-3-x,\ 4+\frac{3}{y}+2y\right\},\ \left\{-3-x,\ 4+\frac{1}{y}+2y\right\},\ \{-3-x,\ 4+2y\},$$
$$\left\{-3-x,\ 4+\frac{2}{y}+3y\right\},\ \left\{-3-x,\ 4+\frac{3}{y}+3y\right\},\ \left\{-3-x,\ 4+\frac{1}{y}+3y\right\},$$
$$\{-3-x,\ 4+3y\},\ \left\{-3-x,\ 4+\frac{2}{y}+2y+y^2\right\},\ \left\{-3-x,\ 4+\frac{3}{y}+2y+y^2\right\},$$
$$\left\{-3-x,\ 4+\frac{1}{y}+2y+y^2\right\},\ \{-3-x,\ 4+2y+y^2\},\ \left\{-3-x,\ 4+\frac{2}{y}+3y+y^2\right\},$$
$$\left\{-3-x,\ 4+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-x,\ 4+\frac{1}{y}+3y+y^2\right\},\ \{-3-x,\ 4+3y+y^2\}\Big\},$$
$$\Big\{\left\{-2-x,\ 4+\frac{2}{y}+2y\right\},\ \left\{-2-x,\ 4+\frac{1}{y}+2y\right\},\ \{-2-x,\ 4+2y\},$$
$$\left\{-2-x,\ 3+\frac{2}{y}+2y\right\},\ \left\{-2-x,\ 3+\frac{1}{y}+2y\right\},\ \{-2-x,\ 3+2y\},$$
$$\left\{-2-x,\ 3+\frac{2}{y}+2y+y^2\right\},\ \left\{-2-x,\ 3+\frac{1}{y}+2y+y^2\right\},\ \{-2-x,\ 3+2y+y^2\},$$
$$\left\{-2-x,\ 4+\frac{2}{y}+2y+y^2\right\},\ \left\{-2-x,\ 4+\frac{1}{y}+2y+y^2\right\},\ \{-2-x,\ 4+2y+y^2\}\Big\},$$
$$\Big\{\left\{-3-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+2y\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+2y\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+2y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{3}{y}+2y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+2y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+2y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 5+\frac{3}{y}+2y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+2y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 5+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+y^2\right\},$$
$$\left\{-3-\frac{2}{x}-x,\ 4+\frac{3}{y}+3y+y^2\right\},\ \left\{-3-\frac{2}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+y^2\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+2y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+2y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+2y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y\right\},$$

$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 5+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-x,\ 4+\frac{2}{y^2}+\frac{3}{y}+3\,y+y^2\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x}-x,\ 4+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+2\,y\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{3}{y}+2\,y\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{2}{y}+3\,y\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 4+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+3\,y\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{3}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{2}{y}+3\,y\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+3\,y\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{2}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{3}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{3}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{2}{y}+2\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+2\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 5+\frac{2}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+3\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 4+\frac{2}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{3}{y}+3\,y+y^2\right\},$$
$$\left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{3}{y}+3\,y+y^2\right\},\ \left\{-3-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+3\,y+y^2\right\}\Big\},$$
$$\Big\{\left\{-2-\frac{1}{x}-x,\ 4+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x}-x,\ 3+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},$$
$$\left\{-2-\frac{1}{x}-x,\ 3+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x}-x,\ 5+\frac{2}{y}+2\,y\right\},\ \left\{-2-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+2\,y\right\},$$
$$\left\{-2-\frac{1}{x}-x,\ 3+\frac{1}{y^2}+\frac{2}{y}+2\,y+y^2\right\},\ \left\{-2-\frac{1}{x}-x,\ 3+\frac{2}{y}+2\,y+y^2\right\},$$
$$\left\{-2-\frac{1}{x}-x,\ 4+\frac{2}{y}+2\,y+y^2\right\},\ \left\{-2-\frac{1}{x}-x,\ 4+\frac{1}{y^2}+\frac{2}{y}+2\,y+y^2\right\},$$
$$\left\{-2-\frac{1}{x}-x,\ 5+\frac{2}{y}+2\,y+y^2\right\},\ \left\{-2-\frac{1}{x}-x,\ 5+\frac{1}{y^2}+\frac{2}{y}+2\,y+y^2\right\}\Big\},$$
$$\Big\{\left\{-3-2\,x-x^2,\ 4+\frac{2}{y}+3\,y+2\,y^2\right\},\ \left\{-3-2\,x-x^2,\ 4+\frac{3}{y}+3\,y+2\,y^2\right\},$$
$$\left\{-3-2\,x-x^2,\ 4+\frac{1}{y}+3\,y+2\,y^2\right\},\ \left\{-3-2\,x-x^2,\ 4+3\,y+2\,y^2\right\},$$
$$\left\{-3-2\,x-x^2,\ 4+\frac{2}{y}+3\,y+2\,y^2+y^3\right\},\ \left\{-3-2\,x-x^2,\ 4+\frac{3}{y}+3\,y+2\,y^2+y^3\right\},$$
$$\left\{-3-2\,x-x^2,\ 4+\frac{1}{y}+3\,y+2\,y^2+y^3\right\},\ \left\{-3-2\,x-x^2,\ 4+3\,y+2\,y^2+y^3\right\}\Big\},$$
$$\Big\{\left\{-4-\frac{2}{x}-2\,x-x^2,\ 6+\frac{3}{y}+4\,y+2\,y^2\right\},\ \left\{-4-\frac{2}{x}-2\,x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+4\,y+2\,y^2\right\},$$
$$\left\{-4-\frac{2}{x}-2\,x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+4\,y+2\,y^2\right\},\ \left\{-4-\frac{2}{x}-2\,x-x^2,\ 6+\frac{3}{y}+3\,y+2\,y^2\right\},$$

$$\left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{3}{y}+4y+2y^2+y^3\right\},$$
$$\left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+4y+2y^2+y^3\right\},\ \left\{-4-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+4y+2y^2+y^3\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\}\Big\},$$
$$\Big\{\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{4}{y}+4y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+4y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+4y+2y^2\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+4y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{4}{y}+4y+2y^2+y^3\right\},$$
$$\left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{4}{y}+4y+2y^2+y^3\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+4y+2y^2+y^3\right\},\ \left\{-4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+4y+2y^2+y^3\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\right.$$
$$\left.6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2\right\},$$

$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 4+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 4+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 5+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 5+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{1}{y^3}+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ 6+\frac{2}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\}\Big\},$$
$$\Big\{\left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{2}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{3}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{2}{y}+3y+2y^2\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{2}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 4+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{3}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{3}{y}+3y+2y^2+y^3\right\},$$
$$\left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{2}{y}+3y+2y^2+y^3\right\},\ \left\{-3-\frac{1}{x}-2x-x^2,\ 5+\frac{1}{y^2}+\frac{2}{y}+3y+2y^2+y^3\right\}\Big\}\Big\}$$

In[20]:= **firsts[5]**

Out[20]= $$\Big\{-3,\ -2,\ -1,\ 0,\ -3-\frac{2}{x},\ -3-\frac{1}{x^2}-\frac{2}{x},\ -3-\frac{1}{x},\ -2-\frac{1}{x},\ -3-2x,\ -4-\frac{2}{x}-2x,$$
$$-3-\frac{2}{x}-2x,\ -4-\frac{1}{x^2}-\frac{2}{x}-2x,\ -3-\frac{1}{x^2}-\frac{2}{x}-2x,\ -3-\frac{1}{x}-2x,\ -3-x,\ -2-x,$$
$$-3-\frac{2}{x}-x,\ -3-\frac{1}{x^2}-\frac{2}{x}-x,\ -3-\frac{1}{x}-x,\ -2-\frac{1}{x}-x,\ -3-2x-x^2,\ -4-\frac{2}{x}-2x-x^2,$$
$$-3-\frac{2}{x}-2x-x^2,\ -4-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ -3-\frac{1}{x^2}-\frac{2}{x}-2x-x^2,\ -3-\frac{1}{x}-2x-x^2\Big\}$$