https://www.codecogs.com/latex/eqneditor.php

 $\label{left} $$\operatorname{For} \, m=4\, \mathbf{0}, \left(p_{1},p_{2},p_{3},p_{4} \right) =\left(a,b,c,d \right) $$ ight $$$

 $-1+\frac{1}{1-a}+\frac{1}{1-a-c}-\frac{1}{1-a-c}+\frac{1}{1-a-c}-\frac{1$

For
$$m = 4$$
 and $(p_1, p_2, p_3, p_4) = (a, b, c, d)$

$$\frac{-1 + \frac{1}{1 - a} + \frac{1}{1 - b} + \frac{1}{1 - c} + \frac{1}{1 - d} - \frac{1}{1 - a - b} - \frac{1}{1 - a - c} - \frac{1}{1 - a - d} - \frac{1}{1 - a - d} - \frac{1}{1 - a - b} - \frac{1}{1 - a - c} -$$