Examples for H1 - if sameP(A,B) ^ zeroP(C,D,E) ^ oneP(G) then ((A/B) + zeroX(C,D,E))

1.) Numbers: [1,1,0,0,0] Goal: [1]

a.)
$$((1/1)+((0+0)+0))$$

2.) Numbers: [5,4,5,1,3] Goal: [1]

a.)
$$((5/5)+((4-3)-1))$$

3.) Numbers: [6,7,4,6,0] Goal: [1]

a.)
$$((6/6) + ((7-4)*0)$$

Examples for H2 - if sameP(A,B) and goalP(C,D,E) then

$$((A - B) + goalX(C,D,E))$$

1.) Numbers: [5,4,3,2,5] Goal: [9]

a.)
$$((5-5)+((2+3)+4))$$

2.) Numbers: [0,0,3,4,6] Goal: [7]

a.)
$$((0-0)+((4-3)+6))$$

3.) Numbers: [9,2,2,8,2] Goal: [5]

a.)
$$((2-2)+(9-(8/2))$$

Examples for H3 - if zeroP(A) and goalP(B) and numbersP(C,D,E) then (B+(A*(C*(D*E))))

1.) Numbers: [1,0,3,4,5] Goal: [5]

2.) Numbers: [6,6,5,0,3] Goal: [3]

a.)
$$(3 + (0 * (6 * (6 * 5))))$$

3.) Numbers: [9,4,0,4,4] Goal: [9]

Examples for H4 - if sameP(A,B) and goalP(C) and numbersP(D,E) then

1.) Numbers: [2,4,2,6,8] Goal: [4]

2.) Numbers: [1,1,1,5,4] Goal: [1]

3.) Numbers: [9,3,3,6,7] Goal: [9]

Examples for H5 - if oneP(A) and zeroP(B,C,D) and onemoreP(E,G) then

- 1.) Numbers: [1,4,5,5,1] Goal: [3]
 - a.) ((4-1)+((5/5)-1))
- 2.) Numbers: [6,1,4,3,0] Goal: [5]
 - a.) ((6-1)+((4-3)*0))
- 3.) Numbers: [3,2,1,1,9] Goal: [8]
 - a.) ((9-1)+((3-2)-1))

Examples for H6 - if oneP(A) and oneP(B) and zeroP(C,D) and twomoreP(E,G) then

((E-(A+B))+zeroX(C,D))

- 1.) Numbers: [1,1,5,0,6] Goal: [4]
 - a.) ((6-(1+1))+(5*0))
- 2.) Numbers: [8,4,4,1,1] Goal: [6]
 - a.) ((8-(1+1))+(4-4))
- 3.) Numbers: [2,5,1,0,1] Goal: [0]
 - a.) ((2-(1+1))+(5*0))

Examples for H7 - if sameP(A,B) and sameP(C,D) and twomoreP(E,G) then

- 1.) Numbers: [8,3,4,3,4] Goal: [6]
 - a.) (8-((3/3)+(4/4)))
- 2.) Numbers: [3,5,5,6,6] Goal: [1]
 - a.) (3 ((5/5) + (6/6)))
- 3.) Numbers: [7,6,6,7,5] Goal: [3]
 - a.) (5 ((6/6) + (7/7)))

Examples for H8 - if twoP(A,B) and zeroP(C,D) and twomoreP(E,G) then ((E - twoX(A,B)) + zeroX(C,D))

- 1.) Numbers: [9,2,0,5,5] Goal: [7]
 - a.) ((9-(2-0))+(5-5))
- 2.) Numbers: [2,1,7,4,0] Goal: [5]
 - a.) ((7 (2/1)) + (4*0))
- 3.) Numbers: [8,4,0,0,3] Goal: [1]
 - a.) ((3-(8/4))+(0+0))

Examples for H9 - if sameP(A,B,C,D,E,G) then

1.) Numbers: [1,1,1,1,1] Goal: [1]

2.) Numbers: [7,7,7,7,7] Goal: [7]

3.) Numbers: [5,5,5,5,5] Goal: [5]

a.)
$$(5 + ((5 - 5) + (5 - 5)))$$