

1. 1011000000

2. 15

3.

a.  $10111 + 101 = 11100$

b.  $1000 + 110 = 1110$

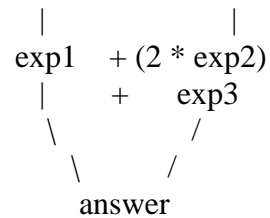
4.

a. 1011000

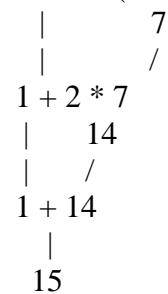
b. 170

5.

a.  $z = (3 * x) + (2 * (y - 4))$



b.  $x = 1 + 2 * (3 + 4)$



6.	P	Q	(P or Q)	not (P or Q)	not P	not Q	not P and not Q
	0	0	0	1	1	1	1
	0	1	1	0	1	0	0
	1	0	1	0	0	1	0
	1	1	1	0	0	0	0