



Question 1: Addition

```
11110110 (-10)
+ _____ (-9)
          (-19)
```

Question 2:

Perform the following binary subtractions by adding the 2's complement of the subtrahend.

- 01101011 - 00010110

- 00101100 - 01101001

Question 3:

Perform the following binary addition and indicate the result is valid/invalid.

```
 0111
+ 0101
-----
```

```
 1001
+ 1100
-----
```

```
 1100
+ 0111
-----
```

```
 1001
+ 0011
-----
```