

- 1) Convert -50 to an 8 bit two's complement number

1100 1110

- 2) Convert 1111 0101 1101 from 12 bit signed magnitude to a decimal number

-1885

- 3) Convert -139 to a 12 bit one's complement number

1111 0111 0100

- 4) Convert 1100 0100 from 8-bit two's complement to a decimal number

-60

- 5) First convert 25 and 87 to two's complement then add them, show the answer in two's complement and decimal

0111 0000 112

- 6) First convert 0x53F and 0xC7A to two's complement then subtract them, show the answer in two's complement and decimal

1000 1100 0101 -1851

- 7) Convert 1101 1111 0001 0101 0110 1000 1011 0010 to hexadecimal

0xDF1568B2

8) Convert 0xCD76F148B to binary

1100 1101 0111 0110 1111 0001 0100 1000 1011

9) **AND** 0x4AFD and 0xF4F7 together

0100 0000 1111 0101 0x40F5

10) **OR** 1110 1100 0000 1111 and 0101 1101 0001 0110 together

1111 1101 0001 1111 0xFD1F

11) **XOR** 0x7FF5 and 0x1DBA together

0110 0010 0100 1111 0x624F

12) Convert -85.0 to single precision floating point (32-bit)

1 1000 0101 0101 0100 ...

13) Convert 0 1000 0010 1000 1100 ... to decimal from single precision floating point (32-bit)

12.375