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Christopher DeLotto – Homework1 (PHY410)
A) (2^5)-10 = 22
        = 10110
B)(1 X 2^8)+(1 x 2^7)+(0 x 2^6)+(1 x 2^5)+(1 x 2^4)+(0 x 2^3)+(1 x 2^2)+(0 x 2^1)+(0 x 2^0)= 110110100 = 436
2's comp.:
(2^{10})-436 = 588
       = 1001001100
C) (1 \times 2^{10})...(0 \times 2^{0}) = 0100000000000 = 1024
2's comp.:
D)
2's comp.(13):
               = 10011
2's comp.(-13):
               = 01101
E)(1 \times 2^{9})+(1 \times 2^{8})+(1 \times 2^{7})+(1 \times 2^{6})+(1 \times 2^{5})+(1 \times 2^{4})+(1 \times 2^{3})+(1 \times 2^{2})+(1 \times 2^{1})+(1 \times 2^{0})=
1111111111 = 1023
 2's comp.(1023):
               = 1000000001
 2's comp.(-1023):
               =01111111111
F)(1 x 2^{10})....(0 x 2^{0}) = 010000000000 = 1024
 2's comp.:
```

2's comp.(-1024):

= 010000000000