* 1. 55;
  2. Sign-mag = 1110111;
  3. 1’s comp = 1001000;
  4. 2’s comp = 1001001;
  5. Sign-mag = -23;
  6. 1’s comp = -8;
  7. 2’s comp = -9 ;

1. 1. Sign-mag = 111111, -31;
   2. 1’s = 100000, -31;
   3. 2’s = 100000, -32;
   4. Sign-mag = decimal(2^0+2^1+….2^(n-1))-1 bitstring
   5. 1’s = decimal(2^0+2^1+….2^(n-1))-1 bitstring
   6. 2’s = decimal(2^0+2^1+….2^(n-1))-1 bitstring
   7. Signed/magnitude has 2 zeros = 0000 and 1000;
   8. 1’s comp has 2 zeros = 0000 and 1111;
   9. 2’s complement
   10. Nothing happens when taking the negative of the most positive
   11. Overflow occurs
   12. 101011
   13. 001101-011110=001101+100010=101111= 010000 +1 = 17
   14. 11101-000111=111001+111001=110010= -18
   15. 011000+001010=100010­­­­­­­­