Practice Quiz 1

Closed Book and Notes

- 1. In a somewhat desperate attempt to impress your "best friends from another major", you tell them that you spent \$1002 on a gift for your favorite ECE professor. In reality (expressed as a base 10 number), you spent:
 - (A) \$1₁₀
 - (B) \$2₁₀
 - (C) \$4₁₀

 - (E) none of the above

- 2² 2¹ 2° 100₂
- 2. The unsigned hexadecimal number (537)₁₆ is equivalent to the following unsigned binary number: 5 3 7
 - (A) (101 11 111)₂
 - (B) (101 011 111)₂
 - (C) (101 0011 0111)₂
 - (D) all of the above
 - (E) none of the above
- 3. The expression X + X + X = X is an example of:
 - (A) involution
 - (B) idempotency
 - (C) associativity
 - (D) distributivity
 - (E) none of the above

___ AND has precedence

- 4. The dual of the expression X + Y·Z is:
 - (A) $X \cdot Y + Z$
 - (B) $X' + Y' \cdot Z'$
 - (C) X·Y + X·Z
 - (D) $X' \cdot Y' + X' \cdot Z'$
 - (E) none of the above
- FD = X. (Y+Z) $= x \cdot Y + x \cdot Z$
- 5. The **complement** of the expression **X** + **Y**·**Z** is:
 - (A) $X \cdot Y + Z$
 - (B) $X' + Y' \cdot Z'$

(C) X·Y+X·Z

(D) X'·Y'+X'·Z'

(E) none of the above

FD with complemented variables yields

the complement

function, F