Boolean Algebra	

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Y = (A AND B) OR CY = (A OR C) AND (B OR C)

Distributive Law

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Commutative Law

Y = A AND B

Y = B AND A

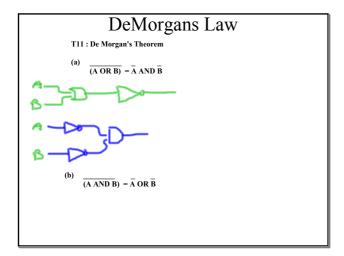
(A AND B) OR (C OR D) = (C OR D) OR (A AND B)

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Associative Law

Y = A AND (B AND C)Y = (A AND B) AND C

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[A OR (B OR C)] AND D

(A AND D) OR [(BOR C) AND D]

[A OR (B OR C)] AND D

[(B OR C) OR A] AND D

Commutative Law
D AND [A OR (B OR C)]

[A OR (C OR B)] AND D

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(A AND B) AND (C AND D) AND E

(A AND B) AND C AND (D AND E)

A AND (B AND C) AND (D AND E)

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[(A AND B) AND C] OR D OR E

E OR [(A AND B) AND C] OR D ~ Commutative

E OR [A] AND [B] AND [O] OR D~ Associative

E OR (A OR D) AND [(B AND C) OR D] ~ Distributive

E OR (A OR D) AND [(B AND C) OR D]

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Homework

Apply 3 laws to each of the following (Do not just keep reversing laws)

A AND B OR (C AND D)
[C OR (A AND B)] AND [(D OR F) OR C]

Create a "from here" - "to here" problem that involves all four laws

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