Tables…

x	$(2)^x$
0	1
1	2
2	4
3	8
4	16
5	32
6	64
7	128
8	256
9	512
10	1024
11	2048

x	$(16)^x$
0	1
1	16
2	256
3	4096

Transformations…

x-axis reflection: $\begin{bmatrix}1 & 0\\0 & -1\end{bmatrix}$ *x*-axis stretch: $\begin{bmatrix}c & 0\\0 & 1\end{bmatrix}$ counter-clockwise rotation: $\begin{bmatrix}\cos\theta & -\sin\theta\\\sin\theta & \cos\theta\end{bmatrix}$

y-axis reflection: $\begin{bmatrix}-1 & 0\\0 & 1\end{bmatrix}$ *y*-axis stretch: $\begin{bmatrix}1 & 0\\0 & c\end{bmatrix}$ clockwise rotation: $\begin{bmatrix}\cos\theta & \sin\theta\\-\sin\theta & \cos\theta\end{bmatrix}$

$|A| = \sqrt{(A.A)}$ $A * B = |A| * |B|$ cos (theta)

Identities…

T1	Commutative Laws (a) $A + B = B + A$ (b) $A * B = B * A$	T6	Identity Laws (a) $A + 0 = A$ (b) $A * 1 = A$
T2	Associative Laws (a) $(A + B) + C = A + (B + C)$ (b) $(A * B) * C = A * (B * C)$	T7	Boundedness Laws (a) $A + 1 = 1$ (b) $A * 0 = 0$
T3	Distributive Laws (a) $A * (B + C) = A * B + A * C$ (b) $A + (B * C) = (A + B) * (A + C)$	T8	Complement Laws (a) $A + \bar{A} = 1$ (b) $A * \bar{A} = 0$
T4	Idempotent Laws (a) $A + A = A$ (b) $A * A = A$	T9	DeMorgan's Theorem (a) $(\overline{A + B}) = \bar{A} * \bar{B}$ (b) $(\overline{A * B}) = \bar{A} + \bar{B}$
T5	Redundancy/Absorption Laws (a) $A + A * B = A$ (b) $A * (A + B) = A$	T10	Law of Double Negation $\bar{\bar{A}} = A$