Canonical Forms

• **Literal** – Any Boolean variable or its complement

• **Sum Term** – Two or more literals joined by OR operators.

• **Product Term** – Two or more literals joined by AND operators.
Canonical Forms

• **Sum-of-Products**— two or more product terms or literals joined by OR operators.

• **Product-of-Sums**— two or more sum terms or literals joined by AND operators.
Canonical Forms

• **Minterm**– a product term that contains each variable exactly once, in either complemented or uncomplemented form

• **Maxterm**– a sum term that contains each variable exactly once, in either complemented or uncomplemented form
Canonical Forms

• **Canonical Sum-of-Products**— A sum-of-products expression in which every product term is a minterm.

• **Canonical Product-of-Sums**— A product-of-sums expression in which every product term is a maxterm.