

Measures on Sets	$m(A \cup B) = m(A) + m(B) - m(A \cap B)$
Probability Theory	$P(A \vee B I) = P(A I) + P(B I) - P(A, B I)$
Information Theory	$I(A; B) = H(A) + H(B) - H(A, B)$
Polya's Min Max Rule	$\max(A, B) = A + B - \min(A, B)$
Integral Divisors	$\log(\text{LCM}(A, B)) = \log(A) + \log(B) - \log(\text{GCD}(A, B))$
Euler Characteristic	$\chi = V - E + F$
Spherical Excess	$(A + B + C) - \pi$
Three Slit Problem	$I_3(A, B, C) = A \sqcup B \sqcup C - A \sqcup B - A \sqcup C - B \sqcup C + A + B + C $