

Argument form

- ⊗ We define an argument form as any array of symbols containing statement variables but no statements, such that when statements are substituted for the statement variables - the same statement ~~be~~ being substituted for the same statement variable throughout - the result is an argument.

⊗ statement variables - p, q, r, s

- ⊗ An argument form is invalid if and only if it has at least one substitution instance with true premises and a false conclusion.

- ⊗ An argument form is valid if and only if it has no substitution instances with true premises and a false conclusion.

Argument form :

$$p \supset q \quad p \supset a$$

$$p \quad q \supset r$$

$$\therefore q \supset r$$

valid argument forms