



The real number r is rational if there exist integers p and q with $q \neq 0$ such that r = p/q

Example (Rosen Ex.6 p.79):

• Example (Rosen Ex.5 p.78)

Show that P(0) is true.

P(n) ="If n > 1, then $n^2 > n$ "

Prove that the sum of two rational numbers is rational.

Proving $p \rightarrow q$



Example (Rosen Ex.6 p.79)
P(n) = "If a and b are positive integers with a ≥ b, then aⁿ ≥ bⁿ"
Show that P(0) is true.

Proving $p \rightarrow q$

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