

.... I so is a sound which is factor Than are vous FRER tyeT; Pay) P(n,y): Rabbit x is faster than Tortone y Negating Quantified Expressions "Every student in your class has taken a course in calculus." There exist a student in your class who has not taken a Course in Calculus HR P(x) P(x): n Student in your Class hass ---- $\left[\sim \left[+ x P(n) \right] = \exists x \sim P(x) \right]$ $\sim (\exists x P(\alpha)) \equiv \forall x \sim P(x)$ " Not all Science Students Study Hard"

~ (Ax P(x)) = 3x, ~ P(x) 2 E Science L) Student = There exist at least one science student who does not study hard.