MATH 205: Statistical methods

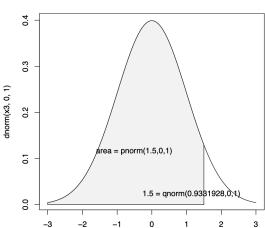
Lab 6: Central limit theorem

MATH 205: Statistical methods

- built-in distributions
- central limit theorem

MATH 205: Statistical methods

Normal distribution: rnorm, dnorm, pnorm, qnorm,



Area to left of 1.5 = pnorm(1.5,0,1)

Problem

Let $X \sim \mathcal{N}(3,9)$.

- Compute $P[3.5 \le X \le 5.25]$.
- Find a such that

 $P[X \le a] = 0.95$

MATH 205: Statistical methods

- The Binomial Probability Distribution
- The Geometric Distribution
- The Poisson Distribution
- The Beta Distribution
- The Gamma Distribution
- The Exponential Distribution