

### Quiz Problem 10

**Problem.** Let  $X \sim \text{Bin}(6, p)$  and consider the hypothesis testing  $H_0 : p = 1/2$   
v.  $H_a : p = 1/5$  using the rejection region  $X \leq 1$ . What is the significance level  $\alpha$   
of this test?

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