

(8 points; 8 minutes)

2. The popularity of TV shows is important to advertisers. A random sample of 1500 TV viewers in California was studied with the results shown below. Use these results to decide whether the popularity of the selected TV shows is the same in CA and NY or different.

(Use a Type I error rate of 0.01 to make your decision.)

Popularity of Selected TV Shows		
Show	Monday 6 p.m. Audience	
	Share in NY	Viewers in CA sample
Lost	31%	426
American Idol	26%	414
Boston Legal	19%	333
Friends	24%	327

(8 points; 8 minutes)

3. The popularity of TV shows is important to advertisers. A random sample of 1600 TV viewers in California was studied with the results shown below. Use these results to decide whether the selected TV shows are equally popular.

(Use a Type I error rate of 0.01 to make your decision.)

Popularity of Selected TV Shows	
Monday 6 p.m. Audience	
Show	CA sample
Lost	416
American Idol	414
Boston Legal	383
Friends	387