Class Time: _____ Name: _____

SOLUTION SHEET: The Chi-Square Distribution

a. Ho: _____

b. Ha: _____

c. degrees of freedom = _____

d. State the distribution to use for the test. _____

e. Test Statistic: X^2 = _____

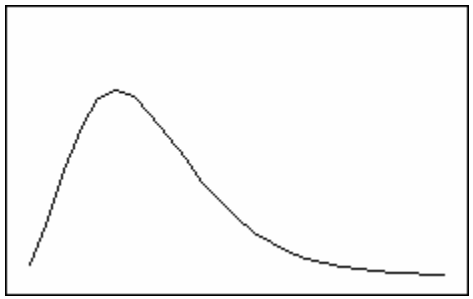
f. p-value = _____ In 1 – 2 complete sentences, explain what the p-value means for this problem.

_____

_____

_____

g. Use the previous information to sketch a picture of this situation. CLEARLY, label and scale the horizontal axis and shade the region(s) corresponding to the p-value.



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h. Indicate the correct decision ("reject" or "do not reject" the null hypothesis) and write appropriate conclusions, using COMPLETE SENTENCES.

alpha	**decision**	**reason for decision**
_____	_____	_____
		_____

Conclusion: _____

_____

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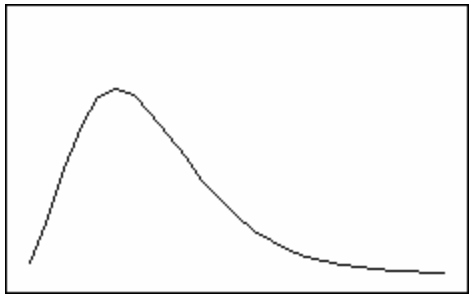

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