Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

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1.	For Metropolis-Hastings algorithms, an acceptance rate of 23.4 was shown to be ideal	1/1 point
	TrueFalse	
	 ✓ Correct PyMC3 offers algorithms for performing both MCMC and Variational Inference. 	
2.	A high acceptance rate (>90%) is an indication that the sampler is not exploring the space very well	1/1 point
	True	
	○ False	
	⊘ Correct	
3.	A low acceptance rate is an indication that	1/1 point
	An incorrect proposal distribution is being used	
	The variance of the proposal distribution is too low	
	⊘ Correct	

4.	When using the NUTS algorithm, PyMC3 aims to get an acceptance rate of	1/1 point
	75%	
	85%	
	⊘ Correct	
5.	If you have convergence issues, it is better to	1/1 point
	O Try increasing the total number of samples drawn	
	Try increasing the number of tuning samples	
	⊘ Correct	
6.	A step size that is too large can result in	1 / 1 point
	C Large sample values	
	Invalid sample values	
	⊘ Correct	
7.	Large step sizes in Hamiltonian Monte Carlo can result in	1/1 point
	Integration errors	
	Out-of-bounds errors	
	⊘ Correct	
8.	Mixing in MCMC refers to	1 / 1 point
	How well the sampling covers the entire distribution space	

The similarity of the sample values	
9. Rhat, used to measure mixing measures	1/1 point
the variance between the chains	
the ratio of the variance between the chains to the variance within the chains	
⊘ Correct	
10. Rhat values below 1.1 indicate convergence while those above do not	1/1 point
True	
○ False	
⊘ Correct	
11. Thinning or pruning refers to dropping every n'th sample to avoid correlated samples	1/1 point
True	
○ False	
⊘ Correct	
12. Divergences happen in regions of high curvature or sharp gradients in the sampling manifold	1 / 1 point
True	
○ False	
⊘ Correct	