1.	When working with regularization, what is the view that illuminates the actual optimization problem and shows why LASSO generally zeros out coefficients?	1 / 1 point
	Analytical view	
	Geometric view	
	O Probabilistic view	
	Regression view	
	Correct! The Geometric view illuminates the actual optimization problem and shows why LASSO generally zeros	
	out coefficients.	
2.	When working with regularization, what is the view that recalibrates our understanding of LASSO and a Ridge, as a	1 / 1 point
	base problem, where coefficients have particular prior distributions?	
	Probabilistic view	
	Geometric view	
	Analytical view	
	Regression view	
	Correct! The Probabilistic view recalibrates our understanding of LASSO and a Ridge as a base problem where	
	coefficients have particular prior distributions.	
3.	When working with regularization, what is the logical view of how to achieve the goal of reducing complexity?	1 / 1 point
	Geometric view	
	Analytical view Regression view	
	Probabilistic view	
	Correct Correct The Applytical view is a legical view of how to achieve the goal of reducing complexity.	
	Correct! The Analytical view is a logical view of how to achieve the goal of reducing complexity.	
4.	All of the following statements about Regularization are TRUE except:	1 / 1 point
	Optimizing predictive models is about finding the right bias/variance tradeoff.	
	Features should rarely or never be scaled prior to implementing regularization.	
	We need models that are sufficiently complex to capture patterns in data, but not so complex that they overfit.	
	Regularization techniques have an analytical, a geometric, and a probabilistic interpretation.	
	○ Correct ☐	
	Correct! For more information review the Regularization Techniques lessons.	

5.	When working with regularization and using the geometric formulation, what is found at the intersection of the penalty boundary and a contour of the traditional OLS cost function surface?	
	The cost function minimum	
	A smaller range of coefficients	
	The prior distribution of β	
	A peaked density	
	Correct Correct! The cost function minimum is found at the intersection of the penalty boundary and a contour of the traditional OLS cost function surface.	
6.	Which statement under the Probabilistic View is correct?	1 / 1 point
	Regularization imposes certain errors on the regression coefficients. Feedback: Incorrect! Please review the further Details of Regularization lessons.	
	Regularization imposes certain priors on the regression coefficients.	
	Regularization uses some regression coefficients to inflate the errors.	
	Regularization coefficients do not take into consideration prior probabilities.	
	Correct Correct! For more information please review the Further Details of Regularization (Part 2) lesson.	
7.	Increasing L2/L1 penalties force coefficients to be smaller, restricting their plausible range. This statement is part of what View?	1 / 1 point
	Geometric View	
	Probabilistic View	
	Analytic View	
	Correct Correct! For more information please review the further Details of Regularization lessons.	
8.	What does a higher lambda term mean in Regularization technique?	1 / 1 point
	Higher lambda decreases variance, means smaller coefficients.	
	Higher lambda decreases variance, means smaller coefficients.	
	Higher lambda decreases variance, means larger coefficients.	
	Higher lambda decreases prior probability.	
	Correct Correct! For more information please review the further Details of Regularization lessons.	

	0	We can derive the posterior probability by knowing the probability of target and the prior distribution.	
	0	The prior distribution is derived from independent draws of a prior coefficient density function that we choose when regularizing.	
	0	L2 (ridge) regularization imposes a Gaussian prior on the coefficients, while L1 (lasso) regularization imposes a Laplacian prior.	
	•	All of the above	
	Q	Correct Correct! For more information please review the further Details of Regularization lessons.	
10.	Wh	at statement is True?	/ 1 poin
	•	We reduce the complexity of the model by minimizing the error on our training set.	
	000	By penalizing the cost function, we increase the complexity of the model. The goal of Regularization is always going to be to optimize our complexity trade off, so we can minimize error on the hold-out set. Introducing Regularization will increase bias and variance.	
	(Correct Incorrect! Please review the further Details of Regularization lessons.	

1 / 1 point

9. What concept/s under Probabilistic View is/are True?