Lesson 3.1

Quiz, 10 questions

1 point	t		
1.			
When using random variable notation, big X denotes			
	a random variable		
	a conditional probability		
	distributed as		
	a realization of a random variable		
	the expectation of a random variable		
	approximately equal to		
1 poin	t		
2.			
When	using random variable notation, little x denotes		
	a random variable		
	a conditional probability		
	distributed as		
	a realization of a random variable		
	the expectation of a random variable		

	approximately equal to
1 point	t
3. When i	using random variable notation, X ~ denotes
	a random variable
	a conditional probability
	distributed as
	a realization of a random variable
	the expectation of a random variable
	approximately equal to
1 point	t
4.	
What is	is the value of $f(x) = -5I_{\{x>2\}}(x) + xI_{\{x<-1\}}(x)$ when $x=3$?
Ent	er answer here
1 point	t
5.	
	is the value of $f(x) = -5I_{\{x>2\}}(x) + xI_{\{x<-1\}}(x)$ when $x=0$?
Ent	er answer here

point	t
	of the following scenarios could we appropriately model using a ulli random variable?
	Predicting the weight of a typical hockey player
	Predicting the number of wins in a series of three games against a single opponent (ties count as losses)
	Predicting the number of goals scored in a hockey match
	Predicting whether your hockey team wins its next game (tie counts as a loss)
on valu	ate the expected value of the following random variable: X takes ues $\{0,1,2,3\}$ with corresponding probabilities $\{0,2,0.2,0.1\}$. Round your answer to one decimal place.
Ent	ter answer here
1 point	t .
	of the following scenarios could we appropriately model using a ial random variable (with n > 1)?
	Predicting the number of wins in a series of three games against a single opponent (ties count as losses)
	Predicting the number of goals scored in a hockey match
	Predicting the weight of a typical hockey player

Predicting whether your hockey team wins its next game (tie counts as a loss)
1 point
9. Suppose $X \sim \operatorname{Binomial}(3,0.2)$. Calculate $P(X=0)$. Round your answer to two decimal places.
Enter answer here
$10.$ $\text{Suppose } X \sim \operatorname{Binomial}(3,0.2). \text{ Calculate } P(X \leq 2). \text{ Round your answer to two decimal places.}$ Enter answer here
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