Practice quiz on Probability Concepts

NÚMERO TOTAL DE PONTOS 9

1.	If $x =$ "It is raining," what is $\sim (\sim x)$?	1 ponto
	"It is never raining"	
	○ "It is not raining"	
	"It is raining"	
	"It is always raining"	
2.	If the statement "I am 25 years old" is assigned probability 0 , what probability is assigned to the statement "I am not 25 years old"?	1 ponto
	Unknown	
	O 0	
	○ -1	
3.	If I assign to the statement x = "it will rain today" a probability of $p(x) = 0.35$, what probability must I assign to the statement "it will not rain today?"	1 ponto
	.65	
	O .5	
	O .35	
	O 0	
4.		1 ponto

Is the following collection of statements a probability distribution?

	1. I own a Toyota pickup truck
	2. I do not own a Toyota pickup truck
	3. I own a non-Toyota pickup truck
	4. I do not own a non-Toyota pickup truck
	NoYes
5.	I don't know what it means to be "ingenuous." What probability would I assign to the statement, "I am ingenuous OR I am not ingenuous"?
	O 0
	<u>.</u> 5
	1
6.	A friend of mine circumscribes a circle inside a square, so that the diameter of the circle and the edge of the square are the same length. He asks me to close my eyes and pick a point at random inside the square. He says the probability that my point will also be inside the circle is $\frac{\pi}{4}$
	Is this correct?
	Yes
	○ No

7.		e probability of drawing a straight flush (including a Royal Flush) in a e-card poker hand is 0.0000153908	1 ponto	
	Wł	nat is the probability of not drawing a straight flush?		
	•	.9999846092		
	\bigcirc	.9999745688		
	\bigcirc	.9996582672		
	\bigcirc	.9967253809		
8.	nu	hat is the probability that a fair, six-sided die will come up with a prime mber? (Recall that prime numbers are positive integers other than 1 that e divisible only by themselves and 1)	1 ponto	
	\bigcirc	\begin {align}\frac{1}{3}\end {align}		
	•	\begin {align} \frac{1}{2}\end {align}		
	\bigcirc	\begin {align}\frac{2}{3}\end {align}		
	\bigcirc	\begin {align} \frac{1}{6}\end {align}		
9.		e joint probability p (the die will come up 5 , the next card will be a heart) equal to the joint probability:	1 ponto	
	\bigcirc	p (the die will ${f not}$ come up ${f 5}$, the next card will ${f not}$ be a heart)		
	•	p (the next card will be a heart, the die will come up 5)		
	\bigcirc	p (the next card will $oldsymbol{not}$ come up 5 , the next card will be a heart)		
	0	p (the next card will be a heart, the die will $\operatorname{{\bf not}}$ come up 5)		
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