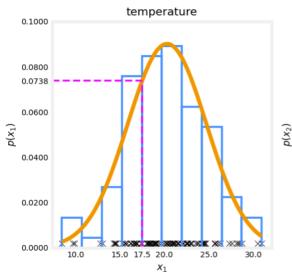
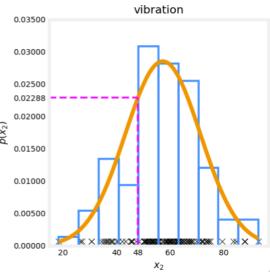
1.		1 / 1 punto
	You are building a system to detect if computers in a data center are malfunctioning. You have 10,000 data points of computers functioning well, and no data from computers malfunctioning. What type of algorithm should you use?	
	Anomaly detection	
	O Supervised learning	
	 Correcto Creating an anomaly detection model does not require labeled data. 	
2.	You are building a system to detect if computers in a data center are malfunctioning. You have 10,000 data points of computers functioning well, and 10,000 data points of computers malfunctioning. What type of algorithm should you use? Anomaly detection	1 / 1 punto
	● Supervised learning (✓) Correcto	
	You have a sufficient number of anomalous examples to build a supervised learning model.	
3.		1 / 1 punto
	Say you have 5,000 examples of normal airplane engines, and 15 examples of anomalous engines. How would you use the 15 examples of anomalous engines to evaluate your anomaly detection algorithm?	
	Use it during training by fitting one Gaussian model to the normal engines, and a different Gaussian model to the anomalous engines.	
	You cannot evaluate an anomaly detection algorithm because it is an unsupervised learning algorithm.	

10/	/22, 0:59	Detección de anomalías Coursera	
	in the	e data of anomalous engines (together with some normal engines) cross-validation and/or test sets to measure if the learned model rrectly detect anomalous engines.	
		se you have data of both normal and anomalous engines, don't omaly detection. Use supervised learning instead.	
		nalous examples are used to evaluate rather than train the model.	
ı	Anomaly d	etection flags a new input x as an anomaly if $p(x) \le \epsilon$. If we reduce	1/1 nunto
٠.		of ϵ , what happens?	1 / 1 punto
	The alg	gorithm is more likely to classify new examples as an anomaly.	
	The alg	gorithm is less likely to classify new examples as an anomaly.	
	and les	gorithm is more likely to classify some examples as an anomaly, as likely to classify some examples as an anomaly. It depends on ample x .	
		gorithm will automatically choose parameters μ and σ to decrease nd compensate.	
		ecto n ∈se reduce, se reduce la probabilidad de que un evento sea ficado como anomalía.	
•	Faté manit	araanda la tamporatura y la intensidad da la vibración en materas	
).	de aviones gaussiano	oreando la temperatura y la intensidad de la vibración en motores recién fabricados. Ha medido 100 motores y ajustado el modelo descrito en las conferencias en video a los datos. Los 100	1 / 1 punto

5 ejemplos y las distribuciones resultantes se muestran en la siguiente figura.

Las medidas del motor más reciente que está probando tienen una temperatura de 17,5 y una intensidad de vibración de 48. Estas se muestran en magenta en la siguiente figura. ¿Cuál es la probabilidad de que un motor tenga estas dos medidas?





- 17.5 * 48 = 840
- 17.5 + 48 = 65.5
- 0.0738 * 0.02288 = 0.00169
- 0.0738 + 0.02288 = 0.0966
 - ✓ Correcto

Según el modelo descrito en la lección, p(A, B) = p(A) * p(B).