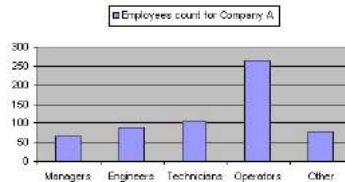


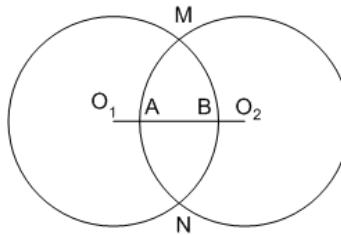
TRẮC NGHIỆM KHDL

Đề số: 2 —o— Số câu: 19 —o— Thời gian: 30 phút
--- đã chỉnh sửa để minh họa ---

- 1 Theo qui định chuẩn, .gif là phần mở rộng của?
- (A) Tập tin hình ảnh (B) Tập tin audio (C) Tập tin văn bản (D) Tập tin video
- 2 What is the approximate percentage of all employees of Company A that are operators?

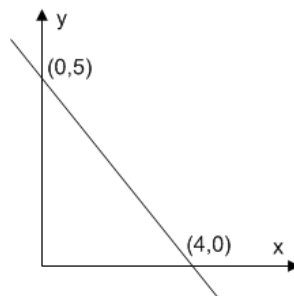


- (A) 12% (B) 44% (C) 33% (D) 29%
- 3 Trụ sở của Microsoft đặt tại đâu?
- (A) New York (B) Texas (C) Washington (D) California
- 4 The two circles in the figure below intersect each other in M and N. Both circles have radii of 4 inches. AB = 3 inches where A and B are the points of intersection of segment O_1O_2 with the two circles.



What is the length O_1O_2 ?

- (A) 5 inches (B) 4 inches (C) 2 inches (D) 3 inches
- 5 Solve. $10x^2 = 6 + 9x$
- (A) $x = \frac{4 \pm \sqrt{26}}{10}$ (B) $x = \frac{-1 \pm \sqrt{108}}{19}$ (C) $x = \frac{5 \pm \sqrt{65}}{-2}$ (D) $x = \frac{9 \pm \sqrt{321}}{20}$
- 6 Which equation best represents the line graphs below ?



- (A) $y = -(4/5)x + 5$ (B) $y = (4/5)x + 5$ (C) $y = (5/4)x + 5$ (D) $y = -(5/4)x + 5$

7 Solve. $-7 \cdot x + 1 - 10 \cdot x^2 = 0$

- A $x = \frac{7 + \sqrt{89}}{-10}$
 B $x = \frac{10 \pm \sqrt{89}}{20}$
 C $x = \frac{-10 \pm \sqrt{89}}{20}$
 D $x = \frac{7 \pm \sqrt{89}}{-20}$

8 $102 - (33 - 42) \cdot 2 =$

- A 16
 B -28
 C 75
 D -21

9 Mike bought 5 shirts and 4 ties. The cost of a tie is \$9 and the cost of a shirt is \$15. Which equation can be used to find the total cost of the 5 shirts and 4 ties, p? Cau 3...

- A $p = 5 \times 15 + 4 \times 9$
 B $p = 5 \times 9 + 4 \times 15$
 C $p = 5 \times 4 + 9 \times 15$
 D $p = 5 \times 5 + 4 \times 4$

		Predicted	
		Negative	Positive
Observed	Negative	TN	FP
	Positive	FN	TP

Denote by,

$$\text{Sensitivity} = \frac{TP}{TP + FN}, \text{ the true positive rate;}$$

$$\text{Specificity} = \frac{TN}{TN + FP}, \text{ the negative predictive value;}$$

and the cost function:

$$\text{Net-revenue} = \begin{aligned} & \#TN \times \text{avg.annual.interest.income} \\ & - \#FP \times Fp.cost - \#FN \times Fn.cost \\ & - \#ofTP \times Tp.Cost.per.customer \end{aligned}$$

10 Which of the followings is of type-I error?

- A FP
 B TN
 C TP
 D FN

11 Which of the followings may be used to measure how often the classifier correctly generates a negative prediction?

- A FP
 B Sensitivity
 C Specificity
 D TP

12 Which of the followings is best for tuning a machine learning model?

- A Specificity
 B Sensitivity
 C Net-revenue
 D Type-I error

13 Which of the followings may be used to measure how often the classifier correctly generates a positive prediction?

- A FP
 B Specificity
 C TP
 D Sensitivity

14 Which of the followings is of type-II error?

- A FN
 B FP
 C TP
 D TN

15 What is the least common multiple of 15, 9 and 6?

- A 30
 B 90
 C 60
 D 45

16 Solve. $-6x - 1 + 5x^2 = 8x^2$

A $x = \frac{3 \pm \sqrt{6}}{-3}$

B $x = \frac{6 \pm \sqrt{21}}{3}$

C $x = \frac{9 \pm \sqrt{21}}{4}$

D $x = \frac{7 \pm \sqrt{71}}{20}$

17 John starts a saving account with \$100. Every week he adds \$6 to his account. Which equation can be used to determine the number of weeks w , after which John's accounts reaches \$220?

A $6 + w = 2204$

B $6w + 100 = 220$

C $6w + 220 = 100$

D $6w - 100 = 220$

18 If a , b and c are odd integers, which of the following expressions must be an even integer?

A $a(b + c - 1)$

B $a + b + c$

C $a(b + c)$

D $ab + bc + ca$

----- Hết Đề Thi -----

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Họ tên/chữ ký: ☞ **DÀNH CHO GIÁO VIÊN**

Ngày sinh: _____

Lớp: _____

Giám thị 1: _____

Giám thị 2: _____

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