

PROYECTO ALEPHSUBO PROBABILIDAD

Banco de preguntas sobre Distribuciones Andrés Merino, Jonathan Ortiz • Octubre 2024

1. INDICACIONES

Se utilizó los siguientes parámetros:

- unaD ∈ {True, False}

En total, se plantean 25 preguntas.

2. BANCO DE PREGUNTAS

2.1 Normal

1. Normal - 1

Sea $X \sim N(-20, 2,25)$. Calcule $P(-19,93 \le X \le -17,21)$.

• $0.4499 \pm 0.001 \checkmark$

2. Normal - 2

Sea $X \sim N(-30, 7,29)$. Calcule $P(X \ge -30,1)$.

• $0.5148 \pm 0.001 \checkmark$

3. Normal - 3

Sea $X \sim N(25, 0.04)$. Calcule $P(24.72 \le X \le 24.81)$.

• $0.0903 \pm 0.001 \checkmark$

4. Normal - 4

Sea $X \sim N(5, 21,16)$. Calcule $P(2,4 \le X \le 12,5)$.

• $0.6625 \pm 0.001 \checkmark$

5. Normal - 5

Sea $X \sim N(-10, 0.04)$. Calcule $P(-10.27 \le X \le -9.91)$.

• $0.5851 \pm 0.001 \checkmark$

6. Normal - 6

Sea $X \sim N(-17, 0.25)$. Calcule $P(-16.84 \le X \le -16.37)$.

• $0.2706 \pm 0.001 \checkmark$

7. Normal - 7

Sea $X \sim N(31, 17,64)$. Calcule $P(X \le 31,02)$.

• $0.5019 \pm 0.001 \checkmark$

8. Normal - 8

Sea $X \sim N(32, 9,0)$. Calcule $P(X \le 37,28)$.

• $0.9608 \pm 0.001 \checkmark$

9. Normal - 9

Sea $X \sim N(-20, 8,41)$. Calcule $P(-17,44 \le X \le -14,66)$.

• $0.1559 \pm 0.001 \checkmark$

10. Normal - 10

Sea $X \sim N(30, 1,21)$. Calcule $P(X \ge 30,09)$.

• $0.4674 \pm 0.001 \checkmark$

11. Normal - 11

Sea $X \sim N(-1, 4,0)$. Calcule $P(-4,59 \le X \le -3,89)$.

• $0.0379 \pm 0.001 \checkmark$

12. Normal - 12

Sea $X \sim N(26, 9,61)$. Calcule $P(31,41 \le X \le 32,19)$.

• $0.0176 \pm 0.001 \checkmark$

13. Normal - 13

Sea $X \sim N(-6, 1,44)$. Calcule $P(X \le -6,22)$.

• $0.4273 \pm 0.001 \checkmark$

14. Normal - 14

Sea $X \sim N(-18, 15,21)$. Calcule $P(-23,86 \le X \le -18,25)$.

• $0.408 \pm 0.001 \checkmark$

15. Normal - 15

Sea $X \sim N(-8, 4,84)$. Calcule $P(X \ge -9,95)$.

• $0.8123 \pm 0.001 \checkmark$

16. Normal - 16

Sea $X \sim N(-31, 12,96)$. Calcule $P(-33,3 \le X \le -29,3)$.

• $0.4202 \pm 0.001 \checkmark$

17. Normal - 17

Sea $X \sim N(4, 1,44)$. Calcule $P(0,45 \le X \le 5,86)$.

• $0.9379 \pm 0.001 \checkmark$

18. Normal - 18

Sea $X \sim N(37, 2,25)$. Calcule $P(X \le 39,46)$.

• $0.9495 \pm 0.001 \checkmark$

19. Normal - 19

Sea $X \sim N(-21, 0.64)$. Calcule $P(X \le -21.48)$.

• $0.2743 \pm 0.001 \checkmark$

20. Normal - 20

Sea $X \sim N(-11, 1,21)$. Calcule $P(X \ge -13,45)$.

• $0.987 \pm 0.001 \checkmark$

21. Normal - 21

Sea $X \sim N(-22, 1,69)$. Calcule $P(-23,28 \leqslant X \leqslant -23,09)$.

• $0.0385 \pm 0.001 \checkmark$

22. Normal - 22

Sea $X \sim N(-11, 11,56)$. Calcule $P(-8,73 \le X \le -2,58)$.

• $0.2455 \pm 0.001 \checkmark$

23. Normal - 23

Sea $X \sim N(-17, 5,76)$. Calcule $P(X \ge -14,14)$.

• $0.1167 \pm 0.001 \checkmark$

24. Normal - 24

Sea $X \sim N(11, 0.36)$. Calcule $P(X \ge 10.72)$.

• $0.6796 \pm 0.001 \checkmark$

25. Normal - 25

Sea $X \sim N(46, 1,21)$. Calcule $P(48,03 \le X \le 48,58)$.

• $0.023 \pm 0.001 \checkmark$