BRITISH COLUMBIA FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 (MFMP-10) · UNIT D · 5 QUESTIONS

Linear Systems, Trigonometry and Measurement — Practice Test

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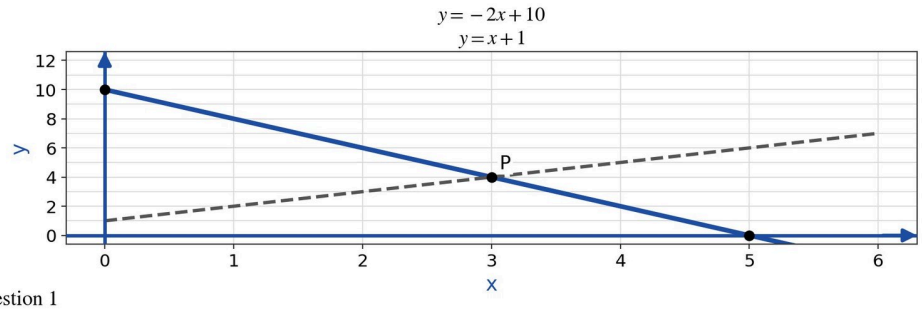
1 **The graph shows the lines y = -2x + 10 and y = x + 1. The solution of the system formed by the two lines is**



Question 1

The graph shows the lines $y = -2x + 10$ and $y = x + 1$. The solution of the system formed by the two lines is

A) $(3, -4)$

B) $(-3, 4)$

C) $(4, 3)$

D) $(3, 4)$

- **A** (3, -4)
- **B** (-3, 4)
- **C** (4, 3)
- **D** (3, 4)

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2 **Antique brass orrery, a model of the solar system with planets around a central sun. Solve the system y = -x + 9, 2x + y = 13. The value of x in the solution is ____.**



ANSWER _____

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3 **Solve the system x + 2y = 11, x - y = 2. The solution is**

A (5, 3)

B (3, 5)

C (5, 4)

D (4, 3)

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4 **A shop sells notebooks for 5 dollars and folders for 3 dollars. On one day, 28 items were sold for a total of 116 dollars. The number of notebooks sold was ____.**

ANSWER _____

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5 **In the triangle, AB = 9, AC = 12, and BC = 15, with a right angle at A. The value of sin C is**

- **A** $\frac{9}{15}$
- **B** $\frac{12}{15}$
- **C** $\frac{9}{12}$
- **D** $\frac{12}{9}$

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ANSWER KEY

1. D
2. 4
3. A
4. 16
5. A

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