



مدونة المناهج السعودية

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الموقع التعليمي لجميع المراحل الدراسية

في المملكة العربية السعودية

Question 5: Solve each of the following inequality for x :

(2 marks)

a) $4x + 10 \geq 2x + 14$

b) $|2x - 5| \leq 15$

(2 marks)



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Question 6: Perform

a) $(3 + 4i) + (2 - 6i)$

(2 marks)

b) $(2 + 3i)(2 - 3i)$

(2 marks)

Question 1: Let $U = \{1,3,5,7,9,11\}$, $A = \{1,3,5,11\}$ and $B = \{3,5,9\}$ and $C = \{1,3\}$
Find: (1 mark)

a) $A \cap B =$

b) $C - A =$

c) $\bar{B} =$

d) $B \cup C =$

Question 2: Simplify $4x^2x^5 + 6x^3x^4$ (2 marks)

Question 3: Expand $\left(\frac{3y^3x^2}{6y^2x^4}\right)^3$ (2 marks)



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Question 7: Solve each of the following equations for x :

a) $3x - 4 = x + 6$

(2 marks)

b) $|2x - 3| = 5$

(2 marks)

c) $4x^2 - 36 = 0$



(2 marks)

d) $x^2 - 4x - 45 = 0$

(2 marks)

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Question 8: Solve each of the following equations for x :

a) $2x - 5 = 3$

(1.5 marks)

b) $6x - 4 = 4x + 8$

(1.5 marks)

c) $|2x - 5| = 7$

(2 marks)



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Question 1: Let $U = \{2,3,4,5,6,7\}$, $A = \{2,4,6\}$ and $B = \{3,5,7\}$ and $C = \{3,4\}$ Find:

a) $A \cup B = \{2, 4, 6, 3, 5, 7\}$ (1 mark)

b) $B \cap C =$ (1 mark)

c) $\bar{C} =$ (1 mark)

d) $A - C =$ (1 mark)

Question 2: Determine which of the following numbers are integers: (2 marks)

5.1, $\frac{8}{2}$, $\frac{\sqrt{25}}{5}$, $3.\bar{6}$, -3 , $\frac{3}{2}$, 7

Question 3: Evaluate

(3 marks)

a- $\left(\frac{25}{4}\right)^{1/2}$

b- $\sqrt[3]{-8} = -2$

c- $\sqrt[4]{16} = 2$



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Question 4: Perform each of the following:

a) $(x^3 + 2x^2 + 1) + (2x^3 + 3x^2 + 5)$

(1.5 marks)

b) $(3x + 1)(2x + 4)$

(1.5 marks)

c) $\frac{(x^2 + 3x - 10)}{3x} \div \frac{(x^2 - 25)}{(x^2 + 5x)}$

(2 marks)

Question 5: The sum of four consecutive even integers is 28. What are the integers?

(2 marks)



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Question 6: Solve each of the following inequality for x :

a) $2x + 3 < 9$

(2 marks)

b) $6x + 12 \geq 2x + 32$

(1.5 marks)

b) $|5x - 5| \leq 20$

(1.5 marks)



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Question 7: Perform

a) $(4 + 5i) + (2 + 3i)$

(2 marks)

b) $(3 + 2i)(3 - 2i)$

(2 marks)

c) i^{30}

(1 mark)