

## UNIT 23 *Algebraic Manipulation* CSEC Multiple Choice Questions

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For each of these questions, choose the option (A, B, C or D) that is TRUE.

(Questions 1 - 3 from CXC papers.)

- The expression  $(3x - 2)(x + 1) =$ 
  - $3x^2 - x - 2$
  - $3x^2 - x + 2$
  - $3x^2 + x - 2$
  - $3x^2 + x + 2$
  
- If  $a$  and  $b$  are two integers, then  $3(a - b)^2$  means
  - three times the square of their difference
  - three times the difference of their squares
  - six times their difference
  - the square of three times their difference
  
- Solve the pair of simultaneous equations
$$\begin{aligned}3x + y &= 1 \\ x - 2y &= 5\end{aligned}$$
  - $x = -1, y = 2$
  - $x = 1, y = -2$
  - $x = 2, y = -1$
  - $x = -2, y = 1$
  
- $8x^2 - 2xy - 15y^2 =$ 
  - $(8x - 15y)(x + y)$
  - $(2x + 3y)(4x - 5y)$
  - $(2x - 5y)(4x + 3y)$
  - $(2x - 3y)(4x + 5y)$

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5.  $(3x - 2)(3x + 2) =$

(A)  $9x^2 + 6x - 4$

(B)  $9x^2 - 4$

(C)  $9x^2 + 4$

(D)  $9x^2 - 6x + 4$

6. Solve the simultaneous equations

$$2x + 3y = -2$$

$$2x + 5y = 2$$

(A)  $x = 2, y = -4$

(B)  $x = 4, y = -2$

(C)  $x = -2, y = 4$

(D)  $x = -4, y = 2$

**UNIT 23** *Algebraic  
Manipulation*CSEC Multiple Choice  
Questions*ANSWERS*

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1. C
2. A
3. B
4. D
5. B
6. D