

UNIT 22 *Algebraic Concepts* CSEC Multiple Choice Questions

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

1. $5(x + y) - 3(x - y) =$

- (A) $2x$
- (B) $2x + 2y$
- (C) $2x + 8y$
- (D) $8x + 8y$

2. $\frac{4x + 8}{2} =$

- (A) $6x$
- (B) $2x + 4$
- (C) $4x + 4$
- (D) $2x + 8$

3. $\frac{3x + 1}{2} - \frac{x + 1}{4} =$

- (A) $\frac{5x + 3}{4}$
- (B) $\frac{5x + 1}{4}$
- (C) $\frac{7x + 3}{4}$
- (D) $\frac{7x + 1}{4}$

4. If $\frac{4}{x} + 4 = 16$, then $x =$

- (A) $\frac{1}{16}$
- (B) $\frac{1}{3}$
- (C) 3
- (D) 48

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5. If $2(x - 1) - 3x = 6$, then $x =$
- (A) -8
(B) -4
(C) 4
(D) 8
6. Given that $2x + 6 = 7$, then $x =$
- (A) $-6\frac{1}{2}$
(B) $-\frac{1}{2}$
(C) $\frac{1}{2}$
(D) $6\frac{1}{2}$
7. If x is an odd number, which of the following is also odd?
- (A) $x + 1$
(B) $x + 2$
(C) $2x + 2$
(D) $3x + 1$
8. $3x + 5y - 4x + 2y =$
- (A) $7xy$
(B) $23xy$
(C) $x + y$
(D) $-x + 7y$
9. $8x - 4(x - 5) =$
- (A) $4x + 20$
(B) $4x - 20$
(C) $4x + 5$
(D) $4x^2 - 20x$

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10. $x^2(x^2 - xy) =$

(A) $2x^2 - 3xy$

(B) $x^2 - xy$

(C) $x^2 - x^3y$

(D) $x^4 - x^3y$

11. $2(5 - x) - 3(x - 6) =$

(A) $x - 8$

(B) $28 - 5x$

(C) $-5x - 8$

(D) $28 - x$

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ANSWERS

1. C
2. B
3. B
4. C
5. A
6. C
7. B
8. D
9. C
10. D
11. B